

# NUTRICIA PRODUCT REFERENCE GUIDE

FOR CLINICIANS



Updated as of February 2019

## Nutricia Contacts

### My Nutricia sales representative(s):

Name: .....

Phone: .....

Email: .....

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## How to Contact Nutricia

### Nutricia's Customer Service:

- **Phone:** (800) 365-7354
- **Fax:** (301) 795-2301
- **Email:** CustomerService@nutricia.com
- **Live Chat:** www.Neocate.com (M-F 8:30 am – 7 pm ET)

### Nutricia's Nutrition Services:

- **Phone:** (800) 365-7354 – Option 2
- **Email:** NutritionServices@nutricia.com
- **Live Chat:** www.Neocate.com (M-F 8:30 am – 5 pm ET)

### Nutricia Metabolics:

- **Phone:** (800) 605-0410
- **Email:** MetaCustomerCare@Nutricia.com

### Internet:

For information on Nutricia products, reimbursement,\* and other helpful resources, visit [www.Nutricia-NA.com](http://www.Nutricia-NA.com). For a complete listing of our websites, see *Resources*.

\* **For reimbursement information, please see *Resources*.**



- **Nutricia is a Global Health Company**
- **Nutricia Leads the Development and Use of Advanced Medical Nutrition for Specialized Care**
- **Nutricia Products and Services Transform the Daily Lives of Millions of Infants, Children, Adults and Aging Seniors**

This guide is a convenient reference for clinicians to the full range of Nutricia's medical nutritional products. Nutricia strives to develop quality products that offer choice and flexibility to today's patients to enhance diet acceptance. Please note that all of our products require medical supervision. For additional information, please call our Nutrition Services team or visit our web site at [www.Nutricia-NA.com](http://www.Nutricia-NA.com). Our staff is comprised of individuals with the highest level of expertise ready to offer support and reliability to our customers. We look forward to hearing from you.

### Consumers and Patients:

Nutricia products are available for convenient home delivery directly from Nutricia North America. Consumers can call our toll free number or visit one of our websites. See *Resources* for a list of our websites.

Consumers can also purchase Nutricia products through retail pharmacies. Pharmacies can special order Nutricia products from their wholesaler or directly from Nutricia North America.

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**Tobey**  
Diagnosed with  
multiple food allergies

## GI/ALLERGY



Find more information and resources on these and all of our products at [www.NutriciaLearningCenter.com](http://www.NutriciaLearningCenter.com)



## Neocate® Syneo® Infant

A nutritionally complete, powdered amino acid-based exempt infant formula with prebiotics and probiotics specifically designed for food-allergic infants, containing iron and nucleotides.

Updated as  
of April 2018

### Main Features:

- Hypoallergenic
- Backed by 3 clinical trials, clinically shown to:
  - Effectively resolve food allergy symptoms<sup>1</sup>
  - Support growth and development<sup>1,2</sup>
  - Help balance the gut microbiota of food-allergic infants<sup>3</sup>
- Probiotic *Bifidobacterium breve* M-16V
- Prebiotic blend of scFOS and lcFOS\*
- Osmolality\*\*: 360 mOsm/kg
- Free water\*\*: 90.0%
- Energy distribution:
 

|                       |       |
|-----------------------|-------|
| Protein               | 11.4% |
| Carbohydrate          | 45.1% |
| Fat (MCT 33%/LCT 67%) | 43.5% |
- Potential Renal Solute Load\*\*: 176 mOsm/L
- Halal
- Displacement 0.71 mL/g

### Indications:

- Cow milk allergy
- Multiple food allergies
- Related GI and allergic conditions:
  - Food protein-induced enterocolitis syndrome (FPIES)
  - Eosinophilic esophagitis (EoE)
  - Gastroesophageal reflux

For details on **scoop size, household measures, and administration**, please see the end of this section.

**For guidance on monitoring micronutrients, please see page 38.**

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code | Product Packaging   | Calories Per Can |
|--------------|--------------------|------------|---------------------|------------------|
| 111436       | 49735-0114-36      | B4161      | 4 x 400 g (14.1 oz) | 1900             |

**WIC<sup>†</sup>: Contact your state WIC office to determine availability.**

For more reimbursement information see [Resources](#).

1. Burks, et al. *Pediatr Allergy Immunol.* 2015;26:316-22. 2. Harvey, et al. *Pediatr Res.* 2014;75:343-51. 3. Candy, et al. *Pediatr Res.* 2018;83:677-86.  
\* short- and long-chain fructooligosaccharides \*\* At standard concentration, 20 kcal/fl oz

Not recommended for use in infants with a central venous catheter or post-pyloric feeding tube unless directed by a healthcare professional.

### Nutrition Information:

| Nutrients                         | Per 100 g  | Per 100 kcal | Minerals        | Per 100 g | Per 100 kcal |
|-----------------------------------|------------|--------------|-----------------|-----------|--------------|
| Calories                          | 475        | 100          | Calcium, mg     | 549       | 116          |
| Protein Equivalent, g             | 13.5       | 2.8          | Phosphorus, mg  | 388       | 81.7         |
| Fat, g                            | 23.0       | 4.8          | Magnesium, mg   | 50.0      | 10.5         |
| Linoleic Acid, mg                 | 3348       | 705          | Iron, mg        | 7.1       | 1.5          |
| α-Linolenic Acid, mg              | 396        | 83.4         | Zinc, mg        | 5.2       | 1.1          |
| DHA, mg                           | 77.0       | 16.2         | Manganese, mcg  | 190       | 40.0         |
| ARA, mg                           | 77.0       | 16.2         | Copper, mcg     | 400       | 84.2         |
| Carbohydrate, g                   | 53.5       | 11.3         | Iodine, mcg     | 98.0      | 20.6         |
| Soluble Fiber, g                  | 4.5        | 0.95         | Molybdenum, mcg | 11.0      | 2.3          |
| <b>Vitamins</b>                   |            |              | Chromium, mcg   | 10.4      | 2.2          |
| Vitamin A, IU (mcg RE)            | 1352 (406) | 285 (85.5)   | Selenium, mcg   | 14.2      | 3.0          |
| Vitamin D <sub>3</sub> , IU (mcg) | 352 (8.8)  | 74.1 (1.9)   | Sodium, mg      | 185       | 38.9         |
| Vitamin E, IU (mg α-TE)           | 6.5 (4.4)  | 1.4 (0.93)   | Potassium, mg   | 515       | 108          |
| Vitamin K, mcg                    | 42.5       | 9.0          | Chloride, mg    | 378       | 79.6         |
| Thiamin, mcg                      | 540        | 110          |                 |           |              |
| Riboflavin, mcg                   | 540        | 114          |                 |           |              |
| Vitamin B <sub>6</sub> , mcg      | 540        | 114          |                 |           |              |
| Vitamin B <sub>12</sub> , mcg     | 1.3        | 0.27         |                 |           |              |
| Niacin, mcg                       | 4900       | 1032         |                 |           |              |
| Folic Acid, mcg                   | 64.0       | 13.5         |                 |           |              |
| Pantothenic Acid, mcg             | 2900       | 611          |                 |           |              |
| Biotin, mcg                       | 19.0       | 4.0          |                 |           |              |
| Vitamin C, mg                     | 51.6       | 10.9         |                 |           |              |
| Choline, mg                       | 95.4       | 20.1         |                 |           |              |
| Inositol, mg                      | 108        | 22.7         |                 |           |              |

### Ingredients:

Corn Syrup Solids (51%), Refined Vegetable Oil (Medium Chain Triglycerides (8%), High Oleic Sunflower Oil (6%), Sunflower Oil (4%), Canola Oil (4%), Fructooligosaccharides (Oligofructose (4%) and Inulin (0.5%)), and less than 2% of each of the following: Dipotassium Phosphate, Tricalcium Phosphate, Calcium Carbonate, Calcium Glycerophosphate, L-Arginine, L-Aspartate, Calcium Phosphate Dibasic, L-Leucine, L-Lysine Acetate, Tripotassium Citrate, L-Glutamine, L-Proline, L-Valine, Citric Acid Esters of Mono- and Diglycerides (CITREM), Glycine, L-Isoleucine, L-Threonine, L-Phenylalanine, L-Tyrosine, L-Serine, L-Histidine, L-Alanine, Sodium Chloride, L-Cystine, L-Tryptophan, Magnesium Chloride, Choline Bitartrate, L-Methionine, Tricalcium Citrate, Magnesium L-Aspartate, *M. alpina* Oil\*, *C. cohnii* Oil\*\*, M-Inositol, L-Ascorbic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, Uridine 5'-Monophosphate Disodium Salt, Cytidine 5'-Monophosphate, Niacinamide, Inosine 5'-Monophosphate Disodium Salt, Adenosine 5'-Monophosphate, Calcium D-Pantothenate, Guanosine 5'-Monophosphate Disodium Salt, DL-alpha Tocopheryl Acetate, *Bifidobacterium breve* M-16V, Ascorbyl Palmitate, Manganese Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Cupric Sulfate, Riboflavin, Vitamin A Acetate, DL-alpha Tocopherol, Potassium Iodide, Mixed Tocopherols, Folic Acid, Chromium Chloride, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

\* A Source of Arachidonic Acid (ARA)

\*\* A Source of Docosahexaenoic Acid (DHA)



## Neocate® Infant DHA / ARA

A nutritionally complete, powdered amino acid-based exempt infant formula containing iron and nucleotides.

Updated as  
of April 2018

### Main Features:

- Hypoallergenic
- Nucleotides, present in human milk  
4.8 mg per 100 kcals
- DHA at 0.35% fatty acids  
DHA and ARA at 1:1 ratio
- Over 100 publications and counting  
support Neocate
- Osmolality (at 0.67 kcal/mL):  
340 mOsm/kg
- Free water (at 0.67 kcal/mL): 90.3%
- Energy distribution:  
Protein 11.2%  
Carbohydrate 43.1%  
Fat (MCT 33%/LCT 67%) 45.7%
- Potential Renal Solute Load:  
168 mOsm/L
- Halal & Kosher Pareve
- Displacement 0.70 mL/g

### Indications:

- Cow milk allergy
- Multiple food allergies
- Related GI and allergic conditions

For details on **scoop size, household measures, and administration**, please see the end of this section.

**For guidance on monitoring micronutrients, please see page 38.**

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code | Product Packaging   | Calories Per Can |
|--------------|--------------------|------------|---------------------|------------------|
| 12595        | 49735-0125-95      | B4161      | 4 x 400 g (14.1 oz) | 1932             |

**WIC<sup>+</sup>: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

### Nutrition Information:

| Nutrients                         | Per 100 g  | Per 100 kcal | Minerals        | Per 100 g | Per 100 kcal |
|-----------------------------------|------------|--------------|-----------------|-----------|--------------|
| Calories                          | 483        | 100          | Calcium, mg     | 561       | 116          |
| Protein Equivalent, g             | 13.5       | 2.8          | Phosphorus, mg  | 397       | 82.2         |
| Fat, g                            | 24.5       | 5.1          | Magnesium, mg   | 51.0      | 10.6         |
| Linoleic Acid, mg                 | 3565       | 738          | Iron, mg        | 7.3       | 1.5          |
| $\alpha$ -Linolenic Acid, mg      | 419        | 86.8         | Zinc, mg        | 5.3       | 1.1          |
| DHA, mg                           | 81.6       | 16.9         | Manganese, mcg  | 200       | 41.4         |
| ARA, mg                           | 81.6       | 16.9         | Copper, mcg     | 410       | 84.9         |
| Carbohydrate, g                   | 52.0       | 10.8         | Iodine, mcg     | 100       | 20.7         |
| <b>Vitamins</b>                   |            |              | Molybdenum, mcg | 11.3      | 2.3          |
| Vitamin A, IU (mcg RE)            | 1352 (406) | 280 (84.1)   | Chromium, mcg   | 10.6      | 2.2          |
| Vitamin D <sub>3</sub> , IU (mcg) | 352 (8.8)  | 72.9 (1.8)   | Selenium, mcg   | 14.5      | 3            |
| Vitamin E, IU (mg $\alpha$ T.E.)  | 6.8 (4.6)  | 1.4 (0.94)   | Sodium, mg      | 189       | 39.1         |
| Vitamin K, mcg                    | 42.5       | 8.8          | Potassium, mg   | 525       | 109          |
| Thiamin, mcg                      | 540        | 110          | Chloride, mg    | 386       | 79.9         |
| Riboflavin, mcg                   | 540        | 110          |                 |           |              |
| Vitamin B <sub>6</sub> , mcg      | 540        | 112          |                 |           |              |
| Vitamin B <sub>12</sub> , mcg     | 1.3        | 0.27         |                 |           |              |
| Niacin, mcg                       | 4900       | 1014         |                 |           |              |
| Folic Acid, mcg                   | 64.0       | 13.3         |                 |           |              |
| Pantothenic Acid, mcg             | 2900       | 600          |                 |           |              |
| Biotin, mcg                       | 19.0       | 3.9          |                 |           |              |
| Vitamin C, mg                     | 51.6       | 10.7         |                 |           |              |
| Choline, mg                       | 95.4       | 19.8         |                 |           |              |
| Inositol, mg                      | 108        | 22.4         |                 |           |              |

### Ingredients:

Corn Syrup Solids (54%), Refined Vegetable Oil (Medium Chain Triglycerides (8%), High Oleic Sunflower Oil (6%), Sunflower Oil (5%), Canola Oil (4%)), and less than 2% of each of the following: Calcium Phosphate Dibasic, Dipotassium Phosphate, Tricalcium Phosphate, Calcium Carbonate, Calcium Glycerophosphate, L-Arginine L-Aspartate, L-Leucine, Tripotassium Citrate, L-Lysine Acetate, L-Glutamine, L-Proline, Citric Acid Esters of Mono- and Diglycerides (CITREM), L-Valine, Glycine, L-Isoleucine, L-Threonine, L-Phenylalanine, L-Tyrosine, L-Serine, L-Histidine, L-Alanine, Sodium Chloride, L-Cystine, Magnesium Chloride, L-Tryptophan, Choline Bitartrate, L-Methionine, Tricalcium Citrate, Magnesium L-Aspartate, *M. Alpina* Oil\*, *C. Cohnii* Oil\*\*, M-Inositol, L-Ascorbic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, Uridine Salt, 5'-Monophosphate Disodium Salt, Cytidine 5'-Monophosphate, Nicotinamide, Inosine 5'-Monophosphate Disodium Salt, Adenosine 5'-Monophosphate, Calcium D-Pantothenate, Guanosine 5'-Monophosphate Disodium Salt, DL-alpha Tocopheryl Acetate, Ascorbyl Palmitate, Manganese Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Cupric Sulfate, Riboflavin, Vitamin A Acetate, DL-alpha Tocopherol, Potassium Iodide, Mixed Tocopherols, Folic Acid, Chromium Chloride, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

\* A Source of Arachidonic Acid (ARA)

\*\* A Source of Docosahexaenoic Acid (DHA)





## Neocate® Nutra

The first and only amino acid-based semi-solid medical food for children and infants over 6 months of age.

### Main Features:

- Smooth, spoonable consistency
- Hypoallergenic
- Made with 100% non-allergenic amino acids
- Milk protein and gluten free
- High in calcium
- Good source of vitamin D, zinc and iron
- Free from artificial flavors, colors and preservatives
- Energy distribution:
 

|                        |     |
|------------------------|-----|
| Protein                | 7%  |
| Carbohydrate           | 57% |
| Fat (MCT 4% / LCT 96%) | 36% |

**Note: Not suitable as sole source of nutrition. Not for bottle or tube feed.**

### Indications:

- Cow milk allergy
- Multiple food allergies
- Related GI and allergic conditions:
  - Short bowel syndrome (SBS)
  - Eosinophilic esophagitis (EoE)
  - Malabsorption
  - Gastroesophageal reflux

For details on **scoop size, household measures, and administration**, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code | Product Packaging   | Calories Per Can |
|--------------|--------------------|------------|---------------------|------------------|
| 66739        | 49735-016739       | B4161      | 4 x 400 g (14.1 oz) | 1888             |

**WIC:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

| Nutrients                         | Per Suggested Serving |               | Minerals        | Per Suggested Serving |               |
|-----------------------------------|-----------------------|---------------|-----------------|-----------------------|---------------|
|                                   | Per 100 g             | (37 g Powder) |                 | Per 100 g             | (37 g Powder) |
| Calories                          | 472                   | 175           | Calcium, mg     | 668                   | 247           |
| Protein Equivalent, g             | 8.2                   | 3.0           | Phosphorus, mg  | 340                   | 126           |
| Fat, g                            | 18.8                  | 7.0           | Magnesium, mg   | 21.0                  | 7.8           |
| Linoleic Acid, mg                 | 3222                  | 1192          | Iron, mg        | 5.9                   | 2.2           |
| Carbohydrate, g                   | 67.4                  | 24.9          | Zinc, mg        | 4.1                   | 1.5           |
| <b>Vitamins</b>                   |                       |               |                 |                       |               |
| Vitamin A, IU (mcg RE)            | 649 (195)             | 240 (72.2)    | Manganese, mcg  | 310                   | 115           |
| Vitamin D <sub>3</sub> , IU (mcg) | 172 (4.3)             | 63.6 (1.6)    | Copper, mcg     | 310                   | 115           |
| Vitamin E, IU (mg α T.E.)         | 3.4 (2.3)             | 1.3 (0.84)    | Iodine, mcg     | 41.4                  | 15.3          |
| Vitamin K, mcg                    | 18.5                  | 6.8           | Molybdenum, mcg | 8.8                   | 3.3           |
| Thiamin, mcg                      | 318                   | 118           | Chromium, mcg   | 10.0                  | 3.7           |
| Riboflavin, mcg                   | 250                   | 92.5          | Selenium, mcg   | 11.3                  | 4.2           |
| Vitamin B <sub>6</sub> , mcg      | 250                   | 92.5          | Sodium, mg      | 38.0                  | 14.1          |
| Vitamin B <sub>12</sub> , mcg     | 0.6                   | 0.22          | Potassium, mg   | <20                   | <10           |
| Niacin, mcg                       | 1100                  | 407           | Chloride, mg    | 44.0                  | 16.3          |
| Folic Acid, mcg                   | 27.5                  | 10.2          |                 |                       |               |
| Pantothenic Acid, mcg             | 1400                  | 518           |                 |                       |               |
| Biotin, mcg                       | 9.1                   | 3.4           |                 |                       |               |
| Vitamin C, mg                     | 23.0                  | 8.5           |                 |                       |               |
| Choline, mg                       | 45.0                  | 16.7          |                 |                       |               |
| Inositol, mg                      | 49.0                  | 18.1          |                 |                       |               |

### Ingredients:

Corn Syrup Solids (42%), Rice Starch (19%), Refined Vegetable Oil (18%) (Non-Hydrogenated Coconut (6%), High Oleic Sunflower (6%), Canola (3%), Sunflower (3%)), Sugar (9%), Calcium Phosphate Tribasic (2%), contains 2% or less than each of the following: L-Arginine L-Aspartate, L-Leucine, L-Lysine Acetate, CAEM (An Emulsifier), L-Glutamine, L-Proline, L-Valine, Glycine, L-Isoleucine, L-Threonine, L-Phenylalanine, L-Tyrosine, L-Serine, L-Histidine, L-Alanine, L-Cystine, L-Tryptophan, L-Methionine, Choline Bitartrate, Magnesium L-Aspartate, Magnesium Acetate, M-Inositol, L-Ascorbic Acid, Ferrous Sulfate, Taurine, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Manganese Sulfate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Potassium Iodide, Chromium Chloride, Folic Acid, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.



## Neocate® Junior, Unflavored (without prebiotics)

A nutritionally complete, powdered amino acid-based medical food for individuals over the age of 1.

Upgraded as  
of May 2018

### Main Features:

- Hypoallergenic
- 100% non-allergenic free amino acids
- Nutritionally complete
- Also available with prebiotic fiber in 5 great-tasting flavors
- Standard dilution = 1 kcal/mL
- Osmolality (at 1 kcal/mL): 600 mOsm/kg
- Free water (at 1 kcal/mL): 85.6%
- Energy distribution:  
Protein 12.4%  
Carbohydrate 42.6%  
Fat (MCT 35% / LCT 65%) 45%
- Displacement: 0.69 mL/g
- Halal & Kosher Pareve

### Indications:

- Cow milk allergy
- Multiple food allergies
- Related GI and allergic conditions:
  - Short bowel syndrome (SBS)
  - Eosinophilic esophagitis (EoE)
  - Food protein-induced enterocolitis syndrome (FPIES)
- Malabsorption
- Gastroesophageal reflux

For details on **scoop size, household measures, and administration**, please see the end of this section.

For guidance on monitoring micronutrients, please see page 38.

Meets or exceeds  
100% DRIs<sup>§</sup> for protein  
+ 25 key vitamins  
& minerals:

|             |           |
|-------------|-----------|
| 1-3 years   | 930 kcal  |
| 4-8 years   | 1370 kcal |
| 9-13 years  | 1565 kcal |
| 14-18 years | 2550 kcal |

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code | Product Packaging   | Calories Per Can |
|--------------|--------------------|------------|---------------------|------------------|
| 11790        | 49735-0117-90      | B4161      | 4 x 400 g (14.1 oz) | 1916             |

WIC+: Contact your state WIC office to determine availability.

For more reimbursement information see Resources.

### Nutrition Information:

| Nutrients                         | Per 100 g  | Per 100 kcal | Minerals        | Per 100 g | Per 100 kcal |
|-----------------------------------|------------|--------------|-----------------|-----------|--------------|
| Calories                          | 479        | 100          | Calcium, mg     | 565       | 118          |
| Protein Equivalent, g             | 14.8       | 3.1          | Phosphorus, mg  | 382       | 79.8         |
| Fat, g                            | 24.0       | 5.0          | Magnesium, mg   | 76.5      | 16.0         |
| Linoleic Acid, mg                 | 3912       | 818          | Iron, mg        | 7.4       | 1.5          |
| Carbohydrate, g                   | 51.0       | 10.7         | Zinc, mg        | 4.7       | 0.98         |
| <b>Vitamins</b>                   |            |              | Manganese, mg   | 0.62      | 0.13         |
| Vitamin A, IU (mcg RE)            | 956 (287)  | 200 (60.0)   | Copper, mcg     | 530       | 111          |
| Vitamin D <sub>3</sub> , IU (mcg) | 380 (9.5)  | 79.4 (2.0)   | Iodine, mcg     | 85.2      | 17.8         |
| Vitamin E, IU (mg α T.E.)         | 10.0 (6.7) | 2.1 (1.4)    | Molybdenum, mcg | 21.5      | 4.5          |
| Vitamin K, mcg                    | 19.2       | 4.0          | Chromium, mcg   | 18.0      | 3.8          |
| Thiamin, mg                       | 0.48       | 0.10         | Selenium, mcg   | 19.2      | 4.0          |
| Riboflavin, mg                    | 0.96       | 0.20         | Sodium, mg      | 239       | 50.0         |
| Vitamin B <sub>6</sub> , mg       | 0.48       | 0.10         | Potassium, mg   | 653       | 136          |
| Vitamin B <sub>12</sub> , mcg     | 1.9        | 0.40         | Chloride, mg    | 364       | 76.1         |
| Niacin, mg                        | 4.3        | 0.90         |                 |           |              |
| Folic Acid, mcg                   | 143        | 29.9         |                 |           |              |
| Pantothenic Acid, mg              | 1.9        | 0.40         |                 |           |              |
| Biotin, mcg                       | 14.4       | 3.0          |                 |           |              |
| Vitamin C, mg                     | 44.6       | 9.3          |                 |           |              |
| Choline, mg                       | 143        | 29.9         |                 |           |              |
| Inositol, mg                      | 105        | 21.9         |                 |           |              |

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oil (Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), High Oleic Sunflower Oil, Sunflower Oil, Canola Oil), L-Serine, and less than 2% of each of the following: L-Glutamine, Glycine, L-Alanine, L-Leucine, L-Lysine Acetate, L-Threonine, L-Tyrosine, Dipotassium Phosphate, Citric Acid Esters of Mono- and Diglycerides (CITREM), L-Valine, Tricalcium Phosphate, Maltodextrin, L-Isoleucine, Tripotassium Citrate, Trisodium Citrate, Calcium Carbonate, L-Proline, L-Cystine, L-Histidine, L-Phenylalanine, Choline Bitartrate, Magnesium Hydrogen Phosphate, L-Methionine, L-Arginine, Sodium Chloride, Calcium Chloride, L-Tryptophan, Magnesium Chloride, M-Inositol, L-Ascorbic Acid, Sunflower Lecithin, Taurine, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Ascorbyl Palmitate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Riboflavin, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Sodium Selenite, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.



## Neocate® Junior

A nutritionally complete, powdered amino acid-based medical food with prebiotic fiber for individuals over the age of 1.

Upgraded as of  
late 2018

### Main Features:

- Hypoallergenic
- Contains prebiotic fiber to help support total gut health
- 100% non-allergenic free amino acids
- Nutritionally complete
- Available in 5 great-tasting flavors: unflavored, vanilla, strawberry, chocolate & tropical
- Also available without prebiotic fiber in unflavored

### Indications:

- Cow milk allergy
- Multiple food allergies
- Related GI and allergic conditions:
  - Short bowel syndrome (SBS)
  - Eosinophilic esophagitis (EoE)
  - Food protein-induced enterocolitis syndrome (FPIES)
  - Malabsorption
  - Gastroesophageal reflux

Meets or exceeds  
100% DRIs<sup>§</sup> for protein  
+ 25 key vitamins  
& minerals:

|             |           |
|-------------|-----------|
| 1-3 years   | 930 kcal  |
| 4-8 years   | 1370 kcal |
| 9-13 years  | 1565 kcal |
| 14-18 years | 2550 kcal |

For details on **scoop size, household measures, and administration**, please see the end of this section.

For guidance on monitoring micronutrients, please see page 38.

### Ordering/Reimbursement Information:

| Product Code       | Reimbursement Code | HCPCS Code | Product Packaging   | Calories Per Can |
|--------------------|--------------------|------------|---------------------|------------------|
| 12912 - Unflavored | 49735-0129-12      | B4161      | 4 x 400 g (14.1 oz) | 1888             |
| 60627 - Vanilla    | 49735-0106-27      | B4161      | 4 x 400 g (14.1 oz) | 1888             |
| 86456 - Strawberry | 49735-0164-56      | B4161      | 4 x 400 g (14.1 oz) | 1888             |
| 12690 - Chocolate  | 49735-0126-90      | B4161      | 4 x 400 g (14.1 oz) | 1840             |
| 12124 - Tropical   | 49735-0121-24      | B4161      | 4 x 400 g (14.1 oz) | 1804             |

WIC<sup>†</sup>: Contact your state WIC office to determine availability.

For more reimbursement information see Resources.

### Nutrition Information:

| Nutrients                         | Vanilla, Strawberry, Unflavored (with prebiotics) |              | Chocolate  |              | Tropical   |              |
|-----------------------------------|---|--------------|------------|--------------|------------|--------------|
|                                   | Per 100 g   | Per 100 kcal | Per 100 g  | Per 100 kcal | Per 100 g  | Per 100 kcal |
| Calories                          | 472   | 100          | 460        | 100          | 451        | 100          |
| Protein Equivalent, g             | 14.8  | 3.1          | 14.2       | 3.1          | 14.2       | 3.1          |
| Fat, g                            | 23.0  | 4.9          | 22.0       | 4.8          | 21.0       | 4.7          |
| Linoleic Acid, mg                 | 3750  | 794          | 3590       | 780          | 3420       | 758          |
| Carbohydrate, g                   | 51.4**  | 10.9         | 51.4       | 11.2         | 51.4       | 11.4         |
| Prebiotic Fiber, g                | 1.9   | 0.40         | 1.9        | 0.41         | 1.9        | 0.42         |
| <b>Vitamins</b>                   |   |              |            |              |            |              |
| Vitamin A, IU (mcg R.E.)          | 956 (287)   | 202 (60.8)   | 956 (287)  | 208 (62.4)   | 956 (287)  | 212 (63.6)   |
| Vitamin D <sub>3</sub> , IU (mcg) | 380 (9.5)   | 80.5 (2.0)   | 380 (9.5)  | 82.6 (2.1)   | 380 (9.5)  | 84.3 (2.1)   |
| Vitamin E, IU (mg α-T.E.)         | 10.0 (6.7)  | 2.1 (1.4)    | 10.0 (6.7) | 2.2 (1.5)    | 10.0 (6.7) | 2.2 (1.5)    |
| Vitamin K, mcg                    | 19.2  | 4.1          | 19.2       | 4.2          | 19.2       | 4.3          |
| Thiamin, mg                       | 0.48  | 0.10         | 0.48       | 0.10         | 0.48       | 0.11         |
| Riboflavin, mg                    | 0.96  | 0.20         | 0.96       | 0.21         | 0.96       | 0.21         |
| Vitamin B <sub>6</sub> , mg       | 0.48  | 0.10         | 0.48       | 0.10         | 0.48       | 0.11         |
| Vitamin B <sub>12</sub> , mcg     | 1.9   | 0.40         | 1.9        | 0.41         | 1.9        | 0.42         |
| Niacin, mg                        | 4.3   | 0.91         | 4.3        | 0.93         | 4.3        | 0.95         |
| Folic Acid, mcg                   | 143   | 30.3         | 143        | 31.1         | 143        | 31.7         |
| Pantothenic Acid, mg              | 1.9   | 0.40         | 1.9        | 0.41         | 1.9        | 0.42         |
| Biotin, mcg                       | 14.4  | 3.1          | 14.4       | 3.1          | 14.4       | 3.2          |
| Vitamin C, mg                     | 44.6  | 9.4          | 44.6       | 9.7          | 44.6       | 9.9          |
| Choline, mg                       | 143   | 30.3         | 143        | 31.1         | 143        | 31.7         |
| Inositol, mg                      | 105   | 22.2         | 105        | 22.8         | 105        | 23.3         |
| <b>Minerals</b>                   |   |              |            |              |            |              |
| Calcium, mg                       | 565   | 120          | 565        | 123          | 565        | 125          |
| Phosphorus, mg                    | 382   | 80.9         | 382        | 83.0         | 382        | 84.7         |
| Magnesium, mg                     | 76.5  | 16.2         | 76.5       | 16.6         | 76.5       | 17.0         |
| Iron, mg                          | 7.4   | 1.6          | 7.4        | 1.6          | 7.4        | 1.6          |
| Zinc, mg                          | 4.7   | 1.0          | 4.7        | 1.0          | 4.7        | 1.0          |
| Manganese, mg                     | 0.62  | 0.13         | 0.62       | 0.13         | 0.62       | 0.14         |
| Copper, mcg                       | 530   | 112          | 530        | 115          | 530        | 118          |
| Iodine, mcg                       | 85.2  | 18.1         | 85.2       | 18.5         | 85.2       | 18.9         |
| Molybdenum, mcg                   | 21.5  | 4.6          | 21.5       | 4.7          | 21.5       | 4.8          |
| Chromium, mcg                     | 18.0  | 3.8          | 18.0       | 3.9          | 18.0       | 4.0          |
| Selenium, mcg                     | 19.2  | 4.1          | 19.2       | 4.2          | 19.2       | 4.3          |
| Sodium, mg                        | 239   | 50.6         | 239        | 52.0         | 239        | 53.0         |
| Potassium, mg                     | 653   | 138          | 653        | 142          | 653        | 145          |
| Chloride, mg                      | 364   | 77.1         | 364        | 79.1         | 364        | 80.7         |

\*\*Strawberry 51.5

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oil (Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), High Oleic Sunflower Oil, Sunflower Oil, Canola Oil), L-Serine, and less than 2% of each of the following: L-Glutamine, Glycine, L-Alanine, L-Leucine, L-Lysine Acetate, L-Threonine, L-Tyrosine, Dipotassium Phosphate, Fructooligosaccharides, Inulin, L-Valine, Citric Acid Esters of Mono- and Diglycerides (CITREM), Tricalcium Phosphate, Maltodextrin, L-Isoleucine, Tripotassium Citrate, Trisodium Citrate, Calcium Carbonate, L-Proline, L-Cystine, L-Histidine, L-Phenylalanine, Choline Bitartrate, Magnesium Hydrogen Phosphate, L-Methionine, L-Arginine, Sodium Chloride, Calcium Chloride, L-Tryptophan, Magnesium Chloride, M-Inositol, L-Ascorbic Acid, Sunflower Lecithin, Taurine, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DI-Alpha Tocopheryl Acetate, Ascorbyl Palmitate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Riboflavin, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Sodium Selenite, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Vanilla** also contains less than 2% of the following: Artificial Flavor, Sucralose.

**Strawberry** also contains less than 2% of the following: Artificial Flavor, Sucralose, Citric Acid.

**Chocolate** also contains: Artificial Flavors, and less than 2% of Sucralose.

**Tropical** also contains: Artificial Flavor, Citric Acid, and less than 2% of Acesulfame Potassium.

|                                   | Unflavored with prebiotics | Strawberry | Vanilla | Chocolate | Tropical |
|-----------------------------------|----------------------------|------------|---------|-----------|----------|
| Osmolality (mOsm/kg) <sup>†</sup> | 620                        | 610        | 620     | 660       | 670      |
| Free water <sup>†</sup>           | 84.3%                      | 85.2%      | 85.2%   | 84.8%     | 84.8%    |
| Displacement, mL/g                | 0.74                       | 0.70       | 0.70    | 0.70      | 0.70     |
| <b>Energy distribution:</b>       |                            |            |         |           |          |
| Protein                           | 12.5%                      | 12.5%      | 12.5%   | 12.3%     | 12.6%    |
| Carbohydrate                      | 43.6%                      | 43.6%      | 43.6%   | 44.7%     | 45.5%    |
| Fat (MCT 35%/LCT 65%)             | 43.9%                      | 43.9%      | 43.9%   | 43.0%     | 41.9%    |

- †Standard dilution = 1 kcal/mL



## Neocate® Splash

The first and only nutritionally complete, ready-to-feed amino acid-based medical food for individuals over the age of 1.

### Main Features:

- Hypoallergenic
- 100% non-allergenic free amino acids
- Nutritionally complete
- Convenient ready-to-feed 8 fl oz drink boxes (for oral and/or tube feeding)
- Gluten and casein free
- Available in 4 great-tasting flavors: Orange-Pineapple, Grape, Tropical Fruit, Unflavored
- Energy density = 1 kcal/mL
- Energy distribution:
 

|                         |     |
|-------------------------|-----|
| Protein                 | 12% |
| Carbohydrate            | 42% |
| Fat (MCT 35% / LCT 65%) | 46% |
- Osmolality (mOsm/kg):
 

|  |
|--|
| 670 (Unflavored)                       |
| 740 (Grape)                            |
| 790 (Orange-Pineapple, Tropical Fruit) |
- Free water: 84.6%

### Indications:

- Cow milk allergy
- Multiple food allergies
- Related GI and allergic conditions:
  - Short bowel syndrome (SBS)
  - Eosinophilic esophagitis (EoE)
  - Food protein-induced enterocolitis syndrome (FPIES)
  - Malabsorption
  - Gastroesophageal reflux

For details on administration, please see the end of this section.

**Meets or exceeds 100% DRIs<sup>1</sup> for protein + 25 key vitamins & minerals:**

|             |         |
|-------------|---------|
| 1-3 years   | 930 mL  |
| 4-8 years   | 1370 mL |
| 9-13 years  | 1565 mL |
| 14-18 years | 2550 mL |

### Ordering/Reimbursement Information:

| Product Code              | Reimbursement Code | HCPCS Code     | Product Packaging     | Calories Per Box |
|---------------------------|--------------------|----------------|-----------------------|------------------|
| 122436 - Orange Pineapple | 49735-0124-36      | B4161 or B4153 | 27 x 237 mL (8 fl oz) | 237              |
| 122435 - Grape            | 49735-0124-35      | B4161 or B4153 | 27 x 237 mL (8 fl oz) | 237              |
| 122437 - Tropical Fruit   | 49735-0124-37      | B4161 or B4153 | 27 x 237 mL (8 fl oz) | 237              |
| 84451 - Unflavored        | 49735-0144-51      | B4161 or B4153 | 27 x 237 mL (8 fl oz) | 237              |

**WIC:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

| Nutrients                         | Per drink box (237 mL) | Per 100 mL | Minerals        | Per drink box (237 mL) | Per 100 mL |
|-----------------------------------|------------------------|------------|-----------------|------------------------|------------|
| Calories                          | 237                    | 100        | Calcium, mg     | 280                    | 118        |
| Protein Equivalent, g             | 7.1                    | 3.0        | Phosphorus, mg  | 190                    | 80.0       |
| Fat, g                            | 12.1                   | 5.1        | Magnesium, mg   | 37.9                   | 16.0       |
| Linoleic Acid, mg (Unflavored)    | 769 (691)              | 325 (292)  | Iron, mg        | 3.6                    | 1.5        |
| Carbohydrate, g                   | 24.9                   | 10.5       | Zinc, mg        | 2.3                    | 0.98       |
| <b>Vitamins</b>                   |                        |            | Manganese, mg   | 0.31                   | 0.13       |
| Vitamin A, IU (mcg R.E.)          | 474 (142)              | 200 (60.0) | Copper, mcg     | 237                    | 100        |
| Vitamin D <sub>3</sub> , IU (mcg) | 190 (4.7)              | 80.0 (2.0) | Iodine, mcg     | 42.2                   | 17.8       |
| Vitamin E, IU (mg α T.E.)         | 5.0 (3.3)              | 2.1 (1.4)  | Molybdenum, mcg | 10.7                   | 4.5        |
| Vitamin K, mcg                    | 9.5                    | 4.0        | Chromium, mcg   | 9.0                    | 3.8        |
| Thiamin, mg                       | 0.31                   | 0.13       | Selenium, mcg   | 9.5                    | 4.0        |
| Riboflavin, mg                    | 0.47                   | 0.20       | Sodium, mg      | 119                    | 50.0       |
| Vitamin B <sub>6</sub> , mg       | 0.24                   | 0.10       | Potassium, mg   | 325                    | 137        |
| Vitamin B <sub>12</sub> , mcg     | 0.95                   | 0.40       | Chloride, mg    | 180                    | 76.0       |
| Niacin, mg                        | 2.1                    | 0.90       |                 |                        |            |
| Folic Acid, mcg                   | 70.9                   | 29.9       |                 |                        |            |
| Pantothenic Acid, mg              | 0.95                   | 0.40       |                 |                        |            |
| Biotin, mcg                       | 7.1                    | 3.0        |                 |                        |            |
| Vitamin C, mg                     | 22.0                   | 9.3        |                 |                        |            |
| Choline, mg                       | 70.9                   | 29.9       |                 |                        |            |
| Inositol, mg                      | 52.1                   | 22.0       |                 |                        |            |

### Ingredients:

Water, Maltodextrin, Sugar, Refined Vegetable Oils (High Oleic Sunflower Oil, Medium Chain Triglycerides (Modified Palm Kernel And/Or Coconut Oil), Canola Oil), And Less Than 2% of each of the following: Calcium Glycerophosphate, Malic Acid, L-Arginine, L-Lysine L-Aspartate, Microcrystalline Cellulose, L-Leucine, Tripotassium Citrate, L-Phenylalanine, Diacetyl Tartaric Acid Esters Of Mono- And Diglycerides, Mono- And Diglycerides, Trisodium Citrate, L-Proline, L-Valine, Glycine, L-Isoleucine, N-Acetyl L-Methionine, L-Threonine, L-Histidine, L-Serine, L-Alanine, Potassium Chloride, Magnesium Acetate, Choline Bitartrate, L-Tryptophan, Calcium Chloride, L-Tyrosine, Cellulose Gum, L-Ascorbic Acid, M-Inositol, L-Cystine, Taurine, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Sodium Selenite, Cupric Sulfate, Riboflavin, Chromium Chloride, Thiamin Chloride Hydrochloride, Vitamin A Palmitate, Pyridoxine Hydrochloride, Folic Acid, Potassium Iodide, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Unflavored** also contains less than 2% of: Ferrous Sulfate.

**Grape** also contains less than 2% of: Artificial Flavors, Sucralose, Ferrous Lactate.

**Tropical Fruit** also contains less than 2% of: Artificial Flavor, Acesulfame Potassium, Ferrous Lactate.

**Orange-Pineapple** also contains less than 2% of: Artificial Flavors, Sucralose, Ferrous Lactate.

## DIRECTIONS FOR PREPARATION AND USE:

- Intake to be determined by a healthcare professional and is dependent on the age, body weight and medical condition of the patient. Intended for use under medical supervision.
- All formulas can be taken orally or tube fed. Not for parenteral use.
  - Neocate Nutra is a semi-solid medical food and is not for bottle or tube feeding.
  - Neocate Syneo Infant is not recommended for use in infants with a central venous catheter or post-pyloric feeding tube unless directed or supervised by a healthcare professional.
- Do not boil formula or use a microwave to prepare or warm formula.
- If taken orally, formulas for beyond 1 year of age are best served chilled.
- Once formula is prepared or drink box is opened, formula should be stored in a refrigerator at 35-40°F (2-4°C) and kept no longer than **24 hours** from the time of preparation (time of opening for liquids). Shake or stir formula immediately before use.
- **Tube feeding hang time:** Nutricia recommends formula can be safely kept at room temperature for up to **4 hours**, at which time unused formula should be discarded.
- Discard formula left in bottle or cup **1 hour** after feeding starts.
- All scoops should be unpacked and level. Use a scale that measures in grams for the most accurate results. Household measures are not recommended for measuring powdered Nutricia products.

## STORAGE:

**Cans:** Store unopened cans at room temperature. Avoid extreme temperatures. Once opened, reseal can and store in a cool, dry place (not a refrigerator). Use within one month (two weeks for Neocate Syneo Infant).

**Packets:** Store unopened packets at room temperature. Once opened, reseal and store in a cool, dry place (not a refrigerator) and use within one week.

**Liquids:** Store unopened product in a cool, dry place. Once opened, store in a refrigerator and keep no longer than 24 hours. Do not freeze.

## DIRECTIONS FOR PREPARATION AND USE:

### NEOCATE SYNEO INFANT AND NEOCATE INFANT DHA/ARA

To make a standard dilution (20 cal/fl oz), add 1 unpacked level scoop of powder to each fluid ounce of water.

Only use the scoop provided.

1. Wash hands thoroughly and clean preparation area.
2. Add 1 unpacked level scoop of powder to each 1 fl oz of water.\*
3. Cap bottle; shake well. Feed immediately OR refrigerate immediately at 35-40°F (2-4°C) and use within 24 hours. Once feeding begins, use within 1 hour or discard.

**\*For Neocate Syneo Infant: Mixing with water warmer than 104°F (40°C) or warming formula above 104°F (40°C) may lessen the benefits of the probiotic cultures.** We recommend cooled, boiled water for preparation and the use of sterilized bottles.

### NEOCATE JUNIOR

To make a standard dilution (30 kcal/fl oz), add 1 unpacked, level scoop of powder to each fluid ounce of water.

1. Measure the required amount of warm or cool water into a container.
2. Add the prescribed amount of Neocate Junior to the water.
3. Stir, or cover and shake, until the powder has dissolved.



### NEOCATE NUTRA

The suggested serving is 8 scoops (37 g) of powder plus 2 fl oz water to give a spoonable consistency. A smaller serving size can be prepared by adding 1 fl oz of water to 4 scoops of powder (18.5 g). It is recommended that cooled, boiled water be used when preparing the product for infants.

1. Wash hands thoroughly and clean the preparation area.
2. Add the recommended number of scoops of Neocate Nutra to a clean bowl.
3. Gradually add the required amount of water while stirring with a clean spoon. Mix until thickened. To alter the consistency, add more or less water as required.

Neocate Nutra should be prepared immediately prior to feeding. Any prepared product remaining should be discarded if not used within one hour. Neocate Nutra can be added to cooked dishes. Do not add to very hot foods. Do not warm prepared product. Not suitable as a sole source of nutrition. **Not for bottle or tube feeding.**

### NEOCATE SPLASH

Shake well before use.

## Household Measures

Visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com) for the  
Neocate Mixing Tool and Household Measures Calculator

\* Upgraded as of  
2018

| Measure   | Weight | Measure  | Weight |
|---|--------|--|--------|
| <b>Neocate Syneo Infant</b>                               |        | <b>Neocate Infant DHA / ARA and Neocate Nutra</b>  |        |
| 1 scoop   | 4.7 g  | 1 scoop  | 4.6 g  |
| 1/2 tsp   | 1.4 g  | 1/2 tsp  | 1.3 g  |
| 1 tsp   | 2.7 g  | 1 tsp  | 2.6 g  |
| 1 Tbsp  | 8.1 g  | 1 Tbsp   | 7.9 g  |
| 1/4 cup   | 32.5 g | 1/4 cup  | 31.5 g |
| 1/3 cup   | 43.3 g | 1/3 cup  | 42 g   |
| 1/2 cup   | 65.0 g | 1/2 cup  | 63 g   |
| 1 cup   | 130 g  | 1 cup  | 126 g  |
| <b>Neocate Junior, Unflavored (without Prebiotics)*</b>   |        | <b>Neocate Junior with Prebiotics, Unflavored*</b> |        |
| 1 scoop   | 7.3 g  | 1 scoop  | 7.7 g  |
| 1/2 tsp   | 1.3 g  | 1/2 tsp  | 1.3 g  |
| 1 tsp   | 2.5 g  | 1 tsp  | 2.7 g  |
| 1 Tbsp  | 7.5 g  | 1 Tbsp   | 8.1 g  |
| 1/4 cup   | 30.0 g | 1/4 cup  | 32.3 g |
| 1/3 cup   | 40.0 g | 1/3 cup  | 43.0 g |
| 1/2 cup   | 80.0 g | 1/2 cup  | 64.5 g |
| 1 cup   | 120 g  | 1 cup  | 129 g  |
| <b>Neocate Junior, Vanilla, Strawberry, and Tropical*</b> |        | <b>Neocate Junior, Chocolate*</b>                  |        |
| 1 scoop   | 7.3 g  | 1 scoop  | 7.5 g  |
| 1/2 tsp   | 1.3 g  | 1/2 tsp  | 1.3 g  |
| 1 tsp   | 2.5 g  | 1 tsp  | 2.6 g  |
| 1 Tbsp  | 7.6 g  | 1 Tbsp   | 7.8 g  |
| 1/4 cup   | 30.3 g | 1/4 cup  | 31.3 g |
| 1/3 cup   | 40.3 g | 1/3 cup  | 41.7 g |
| 1/2 cup   | 60.5 g | 1/2 cup  | 62.5 g |
| 1 cup   | 121 g  | 1 cup  | 125 g  |

Household measures are based on standard US, dry household measures.† All measures are level and unpacked. These values are approximations only and have been provided for convenience: results can vary significantly based on the individual, device, and method. Nutricia North America recommends using a gram scale for greatest accuracy. The scoops Nutricia provides are validated for use with Nutricia formulas, so are preferable to household measures.

† US measures: 1 cup = 240 mL; ½ cup = 120 mL; ⅓ cup = 80 mL; ¼ cup = 60 mL; 1 Tbsp = 15 mL; 1 tsp = 5 mL; ½ tsp = 2.5 mL

## Volume Prescription

| Volume/<br>day                                      | Neocate Syneo Infant and Neocate Infant DHA/ARA |                              |                                 |                              |                                 |                              |                                 |                              |                                 |                              |                                 |                              |
|---|---|------------------------------|---------------------------------|------------------------------|---------------------------------|------------------------------|---------------------------------|------------------------------|---------------------------------|------------------------------|---------------------------------|------------------------------|
|   | 20 kcal/fl oz<br>(# cans/month)                 |                              | 22 kcal/fl oz<br>(# cans/month) |                              | 24 kcal/fl oz<br>(# cans/month) |                              | 26 kcal/fl oz<br>(# cans/month) |                              | 28 kcal/fl oz<br>(# cans/month) |                              | 30 kcal/fl oz<br>(# cans/month) |                              |
|   | Neocate<br>Syneo<br>Infant                      | Neocate<br>Infant<br>DHA/ARA | Neocate<br>Syneo<br>Infant      | Neocate<br>Infant<br>DHA/ARA | Neocate<br>Syneo<br>Infant      | Neocate<br>Infant<br>DHA/ARA | Neocate<br>Syneo<br>Infant      | Neocate<br>Infant<br>DHA/ARA | Neocate<br>Syneo<br>Infant      | Neocate<br>Infant<br>DHA/ARA | Neocate<br>Syneo<br>Infant      | Neocate<br>Infant<br>DHA/ARA |
| 20 fl oz  | 6   | 6                            | 7                               | 7                            | 8                               | 7                            | 8                               | 8                            | 9                               | 9                            | 9                               | 9                            |
| 24 fl oz  | 8   | 7                            | 8                               | 8                            | 9                               | 9                            | 10                              | 10                           | 11                              | 10                           | 11                              | 11                           |
| 28 fl oz  | 9   | 9                            | 10                              | 10                           | 11                              | 10                           | 11                              | 11                           | 12                              | 12                           | 13                              | 13                           |
| 32 fl oz  | 10  | 10                           | 11                              | 11                           | 12                              | 12                           | 13                              | 13                           | 14                              | 14                           | 15                              | 15                           |
| 36 fl oz  | 11  | 11                           | 13                              | 12                           | 14                              | 13                           | 15                              | 15                           | 16                              | 16                           | 17                              | 17                           |
| 40 fl oz  | 13  | 12                           | 14                              | 14                           | 15                              | 15                           | 16                              | 16                           | 18                              | 17                           | 19                              | 19                           |
| <b>Neocate Syneo<br/>Infant<br/>Total Vol/can</b>   | 95 fl oz  |                              | 86 fl oz                        |                              | 79 fl oz                        |                              | 73 fl oz                        |                              | 68 fl oz                        |                              | 63 fl oz                        |                              |
| <b>Neocate Infant<br/>DHA/ARA<br/>Total Vol/can</b> | 97 fl oz  |                              | 88 fl oz                        |                              | 81 fl oz                        |                              | 74 fl oz                        |                              | 69 fl oz                        |                              | 64 fl oz                        |                              |

| Neocate Nutra      |                          |                 |                           |                 |
|--------------------|--------------------------|-----------------|---------------------------|-----------------|
| Servings/day       | 4 scoops Nutra (88 kcal) |                 | 8 scoops Nutra (175 kcal) |                 |
|                    | (# cans/month)           | (# cases/month) | (# cans/month)            | (# cases/month) |
| 1 Serving          |                          | 2               | 1                         | 3               |
| 2 Servings         |                          | 3               | 1                         | 6               |
| 3 Servings         |                          | 5               | 2                         | 9               |
| 4 Servings         |                          | 6               | 2                         | 12              |
| Total Servings/can | 21 Servings              |                 | 10 Servings               |                 |

| Volume/day | Neocate Junior Unflavored (without prebiotics) |                 | Neocate Junior, all other flavors |                 | Neocate Splash  |                 |
|------------|--|-----------------|-----------------------------------|-----------------|-----------------|-----------------|
|            | 30 kcal/fl oz                                  |                 | 30 kcal/fl oz                     |                 | 30 kcal/fl oz   |                 |
|            | (# cans/month)                                 | (# cases/month) | (# cans/month)                    | (# cases/month) | (# boxes/month) | (# cases/month) |
| 20 oz      | 10   | 3               | 10                                | 3               | 76              | 3               |
| 24 oz      | 12   | 3               | 12                                | 3               | 92              | 4               |
| 28 oz      | 14   | 4               | 14                                | 4               | 107             | 4               |
| 32 oz      | 16   | 4               | 16                                | 4               | 122             | 5               |
| 36 oz      | 17   | 5               | 18                                | 5               | 137             | 6               |
| 40 oz      | 19   | 5               | 20                                | 5               | 152             | 6               |

Number of cases per month (30 days) are rounded up to the nearest whole number.

# Neocate® Syneo® Infant

## Nutrient Dilution Chart



| Nutrients per 100 mL          |               |               |               |               |               |               |
|-------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Dilution                      | 20 kcal/fl oz | 22 kcal/fl oz | 24 kcal/fl oz | 26 kcal/fl oz | 28 kcal/fl oz | 30 kcal/fl oz |
| <b>Calories</b>               | 66.7          | 73.3          | 80            | 86.7          | 93.3          | 100           |
| Protein Equivalent, g         | 1.9           | 2.1           | 2.3           | 2.5           | 2.7           | 2.8           |
| Fat, g                        | 3.2           | 3.6           | 3.9           | 4.2           | 4.5           | 4.8           |
| Carbohydrate, g               | 7.5           | 8.3           | 9.0           | 9.8           | 10.5          | 11.3          |
| Soluble Fiber, g              | 0.6           | 0.7           | 0.8           | 0.8           | 0.9           | 0.9           |
| Linoleic Acid, mg             | 470           | 517           | 564           | 611           | 658           | 705           |
| α-Linolenic Acid, mg          | 55.6          | 61.1          | 66.7          | 72.3          | 77.8          | 83.4          |
| <b>Vitamins</b>               |               |               |               |               |               |               |
| Vitamin A, IU                 | 190           | 209           | 228           | 247           | 266           | 285           |
| Vitamin D <sub>3</sub> , IU   | 49.4          | 54.3          | 59.3          | 64.2          | 69.2          | 74.1          |
| Vitamin E, IU                 | 0.9           | 1.0           | 1.1           | 1.2           | 1.3           | 1.4           |
| Vitamin K, mcg                | 6.0           | 6.6           | 7.2           | 7.8           | 8.4           | 9.0           |
| Thiamin, mcg                  | 96.8          | 107           | 116           | 126           | 136           | 145           |
| Riboflavin, mcg               | 75.8          | 83.4          | 90.9          | 98.5          | 106           | 114           |
| Vitamin B <sub>6</sub> , mcg  | 75.8          | 83.4          | 90.9          | 98.5          | 106           | 114           |
| Vitamin B <sub>12</sub> , mcg | 0.2           | 0.2           | 0.2           | 0.2           | 0.3           | 0.3           |
| Niacin, mcg                   | 688           | 756           | 825           | 894           | 963           | 1032          |
| Folic Acid, mcg               | 9.0           | 9.9           | 10.8          | 11.7          | 12.6          | 13.5          |
| Pantothenic Acid, mcg         | 407           | 448           | 488           | 529           | 570           | 611           |
| Biotin, mcg                   | 2.7           | 2.9           | 3.2           | 3.5           | 3.7           | 4.0           |
| Vitamin C, mg                 | 7.2           | 8.0           | 8.7           | 9.4           | 10.1          | 10.9          |
| Choline, mg                   | 13.4          | 14.7          | 16.1          | 17.4          | 18.7          | 20.1          |
| Inositol, mg                  | 15.2          | 16.7          | 18.2          | 19.7          | 21.2          | 22.7          |
| <b>Minerals</b>               |               |               |               |               |               |               |
| Calcium, mg                   | 77.1          | 84.8          | 92.5          | 100           | 108           | 116           |
| Phosphorus, mg                | 54.5          | 59.9          | 65.3          | 70.8          | 76.2          | 81.7          |
| Magnesium, mg                 | 7.0           | 7.7           | 8.4           | 9.1           | 9.8           | 10.5          |
| Iron, mg                      | 1.0           | 1.1           | 1.2           | 1.3           | 1.4           | 1.5           |
| Zinc, mg                      | 0.7           | 0.8           | 0.9           | 0.9           | 1.0           | 1.1           |
| Manganese, mcg                | 26.7          | 29.3          | 32.0          | 34.7          | 37.3          | 40.0          |
| Copper, mcg                   | 56.1          | 61.8          | 67.4          | 73.0          | 78.6          | 84.2          |
| Iodine, mcg                   | 13.8          | 15.1          | 16.5          | 17.9          | 19.3          | 20.6          |
| Molybdenum, mcg               | 1.5           | 1.7           | 1.9           | 2.0           | 2.2           | 2.3           |
| Chromium, mcg                 | 1.5           | 1.6           | 1.8           | 1.9           | 2.0           | 2.2           |
| Selenium, mcg                 | 2.0           | 2.2           | 2.4           | 2.6           | 2.8           | 3.0           |
| Sodium, mg                    | 26            | 28.6          | 31.2          | 33.8          | 36.4          | 38.9          |
| Potassium, mg                 | 72.3          | 79.5          | 86.7          | 94.0          | 101           | 108           |
| Chloride, mg                  | 53.1          | 58.4          | 63.7          | 69.0          | 74.3          | 79.6          |

# Neocate® Infant DHA / ARA

## Nutrient Dilution Chart



| Nutrients per 100 mL          |               |               |               |               |               |               |
|-------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Dilution                      | 20 kcal/fl oz | 22 kcal/fl oz | 24 kcal/fl oz | 26 kcal/fl oz | 28 kcal/fl oz | 30 kcal/fl oz |
| <b>Calories</b>               | 66.7          | 73.3          | 80.0          | 86.7          | 93.3          | 100           |
| Protein Equivalent, g         | 1.9           | 2.0           | 2.2           | 2.4           | 2.6           | 2.8           |
| Fat, g                        | 3.4           | 3.7           | 4.1           | 4.4           | 4.7           | 5.1           |
| Carbohydrate, g               | 7.2           | 7.9           | 8.6           | 9.3           | 10.0          | 10.8          |
| Linoleic Acid, mg             | 492           | 541           | 590           | 640           | 689           | 738           |
| α-Linolenic Acid, mg          | 57.9          | 63.7          | 69.5          | 75.3          | 81.0          | 86.8          |
| <b>Vitamins</b>               |               |               |               |               |               |               |
| Vitamin A, IU                 | 187           | 205           | 224           | 243           | 261           | 280           |
| Vitamin D <sub>3</sub> , IU   | 48.6          | 53.4          | 58.3          | 63.2          | 68.0          | 72.9          |
| Vitamin E, IU                 | 0.94          | 1.0           | 1.1           | 1.2           | 1.3           | 1.4           |
| Vitamin K, mcg                | 5.9           | 6.5           | 7.0           | 7.6           | 8.2           | 8.8           |
| Thiamin, mcg                  | 95.2          | 105           | 114           | 124           | 133           | 143           |
| Riboflavin, mcg               | 74.5          | 82.0          | 89.4          | 96.9          | 104           | 112           |
| Vitamin B <sub>6</sub> , mcg  | 74.5          | 82.0          | 89.4          | 96.9          | 104           | 112           |
| Vitamin B <sub>12</sub> , mcg | 0.18          | 0.2           | 0.22          | 0.23          | 0.25          | 0.27          |
| Niacin, mcg                   | 676           | 744           | 812           | 879           | 947           | 1014          |
| Folic Acid, mcg               | 8.8           | 9.7           | 10.6          | 11.5          | 12.4          | 13.3          |
| Pantothenic Acid, mcg         | 400           | 440           | 480           | 520           | 560           | 600           |
| Biotin, mcg                   | 2.6           | 2.9           | 3.1           | 3.4           | 3.7           | 3.9           |
| Vitamin C, mg                 | 7.1           | 7.8           | 8.5           | 9.3           | 10.0          | 10.7          |
| Choline, mg                   | 13.2          | 14.5          | 15.8          | 17.1          | 18.4          | 19.8          |
| Inositol, mg                  | 14.9          | 16.4          | 17.9          | 19.4          | 20.9          | 22.4          |
| <b>Minerals</b>               |               |               |               |               |               |               |
| Calcium, mg                   | 77.4          | 85.2          | 92.9          | 101           | 108           | 116           |
| Phosphorus, mg                | 54.8          | 60.3          | 65.8          | 71.2          | 76.7          | 82.2          |
| Magnesium, mg                 | 7.0           | 7.7           | 8.4           | 9.2           | 9.9           | 10.6          |
| Iron, mg                      | 1.0           | 1.1           | 1.2           | 1.3           | 1.4           | 1.5           |
| Zinc, mg                      | 0.73          | 0.8           | 0.88          | 0.95          | 1.0           | 1.1           |
| Manganese, mcg                | 27.6          | 30.4          | 33.1          | 35.9          | 38.6          | 41.4          |
| Copper, mcg                   | 56.6          | 62.2          | 67.9          | 73.6          | 79.2          | 84.9          |
| Iodine, mcg                   | 13.8          | 15.2          | 16.6          | 17.9          | 19.3          | 20.7          |
| Molybdenum, mcg               | 1.6           | 1.7           | 1.9           | 2.0           | 2.2           | 2.3           |
| Chromium, mcg                 | 1.5           | 1.6           | 1.8           | 1.9           | 2.0           | 2.2           |
| Selenium, mcg                 | 2.0           | 2.2           | 2.4           | 2.6           | 2.8           | 3.0           |
| Sodium, mg                    | 26.1          | 28.7          | 31.3          | 33.9          | 36.5          | 39.1          |
| Potassium, mg                 | 72.5          | 79.7          | 87.0          | 94.2          | 101           | 109           |
| Chloride, mg                  | 53.3          | 58.6          | 63.9          | 69.3          | 74.6          | 79.9          |

## Neocate® Junior, Unflavored (without prebiotics)

## Nutrient Dilution Chart

| Nutrients per 100 mL          |               |               |               |               |               |               |               |               |
|-------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Dilution                      | 20 kcal/fl oz | 22 kcal/fl oz | 24 kcal/fl oz | 27 kcal/fl oz | 30 kcal/fl oz | 36 kcal/fl oz | 40 kcal/fl oz | 45 kcal/fl oz |
| <b>Calories</b>               | 66.7          | 73.3          | 80.0          | 90.0          | 100           | 120           | 133           | 150           |
| Protein Equivalent, g         | 2.1           | 2.3           | 2.5           | 2.8           | 3.1           | 3.7           | 4.1           | 4.6           |
| Carbohydrate, g               | 7.1           | 7.8           | 8.5           | 9.6           | 10.7          | 12.8          | 14.2          | 16.0          |
| Fat, g                        | 3.3           | 3.7           | 4.0           | 4.5           | 5.0           | 6.0           | 6.7           | 7.5           |
| Linoleic Acid, mg             | 545           | 599           | 653           | 735           | 818           | 980           | 1089          | 1225          |
| <b>Vitamins</b>               |               |               |               |               |               |               |               |               |
| Vitamin A, IU                 | 133           | 146           | 160           | 180           | 200           | 239           | 266           | 299           |
| Vitamin D <sub>3</sub> , IU   | 53.0          | 58.3          | 63.5          | 71.5          | 79.4          | 95.3          | 106           | 119           |
| Vitamin E, IU                 | 1.4           | 1.5           | 1.6           | 1.8           | 2.0           | 2.5           | 2.7           | 3.1           |
| Vitamin K, mcg                | 2.7           | 2.9           | 3.2           | 3.6           | 4.0           | 4.8           | 5.3           | 6.0           |
| Thiamin, mg                   | 0.07          | 0.07          | 0.08          | 0.09          | 0.10          | 0.12          | 0.13          | 0.15          |
| Riboflavin, mg                | 0.13          | 0.15          | 0.16          | 0.18          | 0.20          | 0.24          | 0.27          | 0.30          |
| Vitamin B <sub>6</sub> , mg   | 0.07          | 0.07          | 0.08          | 0.09          | 0.10          | 0.12          | 0.13          | 0.15          |
| Vitamin B <sub>12</sub> , mcg | 0.26          | 0.29          | 0.32          | 0.36          | 0.40          | 0.48          | 0.53          | 0.59          |
| Niacin, mg                    | 0.60          | 0.66          | 0.72          | 0.81          | 0.90          | 1.1           | 1.2           | 1.3           |
| Folic Acid, mcg               | 19.9          | 21.9          | 23.9          | 26.9          | 29.9          | 35.8          | 39.8          | 44.8          |
| Pantothenic Acid, mg          | 0.26          | 0.29          | 0.32          | 0.36          | 0.40          | 0.48          | 0.53          | 0.59          |
| Biotin, mcg                   | 2.0           | 2.2           | 2.4           | 2.7           | 3.0           | 3.6           | 4.0           | 4.5           |
| Vitamin C, mg                 | 6.2           | 6.8           | 7.4           | 8.4           | 9.3           | 11.2          | 12.4          | 14.0          |
| Choline, mg                   | 19.9          | 21.9          | 23.9          | 26.9          | 29.9          | 35.8          | 39.8          | 44.8          |
| Inositol, mg                  | 14.6          | 16.1          | 17.5          | 19.7          | 21.9          | 26.3          | 29.2          | 32.9          |
| <b>Minerals</b>               |               |               |               |               |               |               |               |               |
| Calcium, mg                   | 78.6          | 86.5          | 94.4          | 106           | 118           | 142           | 157           | 177           |
| Phosphorus, mg                | 53.2          | 58.5          | 63.8          | 71.8          | 79.7          | 95.7          | 106           | 120           |
| Magnesium, mg                 | 10.6          | 11.7          | 12.8          | 14.4          | 16.0          | 19.2          | 21.3          | 24.0          |
| Iron, mg                      | 1.0           | 1.1           | 1.2           | 1.4           | 1.5           | 1.9           | 2.1           | 2.3           |
| Zinc, mg                      | 0.65          | 0.72          | 0.78          | 0.88          | 0.98          | 1.2           | 1.3           | 1.5           |
| Manganese, mg                 | 0.09          | 0.09          | 0.10          | 0.12          | 0.13          | 0.16          | 0.17          | 0.19          |
| Copper, mcg                   | 73.8          | 81.1          | 88.5          | 99.6          | 111           | 133           | 148           | 166           |
| Iodine, mcg                   | 11.9          | 13.0          | 14.2          | 16.0          | 17.8          | 21.3          | 23.7          | 26.7          |
| Molybdenum, mcg               | 3.0           | 3.3           | 3.6           | 4.0           | 4.5           | 5.4           | 6.0           | 6.7           |
| Chromium, mcg                 | 2.5           | 2.8           | 3.0           | 3.4           | 3.8           | 4.5           | 5.0           | 5.6           |
| Selenium, mg                  | 2.7           | 2.9           | 3.2           | 3.6           | 4.0           | 4.8           | 5.3           | 6.0           |
| Sodium, mg                    | 33.3          | 36.6          | 40.0          | 45.0          | 50.0          | 59.9          | 66.6          | 74.9          |
| Potassium, mg                 | 90.9          | 100           | 109           | 123           | 136           | 164           | 182           | 204           |
| Chloride, mg                  | 50.7          | 55.8          | 60.8          | 68.4          | 76.1          | 91.3          | 101           | 114           |

## Neocate® Junior with Prebiotics, Unflavored

## Nutrient Dilution Chart

| Nutrients per 100 mL          |               |               |               |               |               |               |               |               |
|-------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Dilution                      | 20 kcal/fl oz | 22 kcal/fl oz | 24 kcal/fl oz | 27 kcal/fl oz | 30 kcal/fl oz | 36 kcal/fl oz | 40 kcal/fl oz | 45 kcal/fl oz |
| <b>Calories</b>               | 66.7          | 73.3          | 80.0          | 90.0          | 100           | 120           | 133           | 150           |
| Protein Equivalent, g         | 2.1           | 2.3           | 2.5           | 2.8           | 3.1           | 3.8           | 4.2           | 4.7           |
| Carbohydrate, g               | 7.3           | 8.0           | 8.7           | 9.8           | 10.9          | 13.1          | 14.5          | 16.3          |
| Prebiotic Fiber, g            | 0.27          | 0.30          | 0.32          | 0.36          | 0.40          | 0.48          | 0.54          | 0.60          |
| Fat, g                        | 3.2           | 3.6           | 3.9           | 4.4           | 4.9           | 5.8           | 6.5           | 7.3           |
| Linoleic Acid, mg             | 530           | 583           | 636           | 715           | 794           | 953           | 1059          | 1192          |
| <b>Vitamins</b>               |               |               |               |               |               |               |               |               |
| Vitamin A, IU                 | 135           | 148           | 162           | 182           | 202           | 243           | 270           | 304           |
| Vitamin D <sub>3</sub> , IU   | 53.7          | 59.0          | 64.4          | 72.5          | 80.5          | 96.6          | 107           | 121           |
| Vitamin E, IU                 | 1.4           | 1.6           | 1.7           | 1.9           | 2.1           | 2.5           | 2.8           | 3.2           |
| Vitamin K, mcg                | 2.7           | 3.0           | 3.3           | 3.7           | 4.1           | 4.9           | 5.4           | 6.1           |
| Thiamin, mg                   | 0.07          | 0.07          | 0.08          | 0.09          | 0.10          | 0.12          | 0.14          | 0.15          |
| Riboflavin, mg                | 0.14          | 0.15          | 0.16          | 0.18          | 0.20          | 0.24          | 0.27          | 0.31          |
| Vitamin B <sub>6</sub> , mg   | 0.07          | 0.07          | 0.08          | 0.09          | 0.10          | 0.12          | 0.14          | 0.15          |
| Vitamin B <sub>12</sub> , mcg | 0.27          | 0.30          | 0.32          | 0.36          | 0.40          | 0.48          | 0.54          | 0.60          |
| Niacin, mg                    | 0.61          | 0.67          | 0.73          | 0.82          | 0.91          | 1.1           | 1.2           | 1.4           |
| Folic Acid, mcg               | 20.2          | 22.2          | 24.2          | 27.3          | 30.3          | 36.4          | 40.4          | 45.4          |
| Pantothenic Acid, mg          | 0.27          | 0.30          | 0.32          | 0.36          | 0.40          | 0.48          | 0.54          | 0.60          |
| Biotin, mcg                   | 2.0           | 2.2           | 2.4           | 2.7           | 3.1           | 3.7           | 4.1           | 4.6           |
| Vitamin C, mg                 | 6.3           | 6.9           | 7.6           | 8.5           | 9.4           | 11.3          | 12.6          | 14.2          |
| Choline, mg                   | 20.2          | 22.2          | 24.2          | 27.3          | 30.3          | 36.4          | 40.4          | 45.4          |
| Inositol, mg                  | 14.8          | 16.3          | 17.8          | 20.0          | 22.2          | 26.7          | 29.7          | 33.4          |
| <b>Minerals</b>               |               |               |               |               |               |               |               |               |
| Calcium, mg                   | 79.8          | 87.8          | 95.8          | 108           | 120           | 144           | 160           | 180           |
| Phosphorus, mg                | 54.0          | 59.4          | 64.7          | 72.8          | 80.9          | 97.1          | 108           | 121           |
| Magnesium, mg                 | 10.8          | 11.9          | 13.0          | 14.6          | 16.2          | 19.4          | 21.6          | 24.3          |
| Iron, mg                      | 1.0           | 1.1           | 1.3           | 1.4           | 1.6           | 1.9           | 2.1           | 2.4           |
| Zinc, mg                      | 0.66          | 0.73          | 0.80          | 0.90          | 1.0           | 1.2           | 1.3           | 1.5           |
| Manganese, mg                 | 0.09          | 0.10          | 0.11          | 0.12          | 0.13          | 0.16          | 0.18          | 0.20          |
| Copper, mcg                   | 74.9          | 82.3          | 89.8          | 101           | 112           | 135           | 150           | 168           |
| Iodine, mcg                   | 12.0          | 13.2          | 14.4          | 16.2          | 18.1          | 21.7          | 24.1          | 27.1          |
| Molybdenum, mcg               | 3.0           | 3.3           | 3.6           | 4.1           | 4.6           | 5.5           | 6.1           | 6.8           |
| Chromium, mcg                 | 2.5           | 2.8           | 3.1           | 3.4           | 3.8           | 4.6           | 5.1           | 5.7           |
| Selenium, mg                  | 2.7           | 3.0           | 3.3           | 3.7           | 4.1           | 4.9           | 5.4           | 6.1           |
| Sodium, mg                    | 33.8          | 37.1          | 40.5          | 45.6          | 50.6          | 60.8          | 67.5          | 76.0          |
| Potassium, mg                 | 92.2          | 101           | 111           | 125           | 138           | 166           | 184           | 208           |
| Chloride, mg                  | 51.4          | 56.6          | 61.7          | 69.4          | 77.1          | 92.5          | 103           | 116           |



Dilution Charts



20 kcal/fl oz (Standard dilution)

| Volume of Water* |     | Amount of Neocate Powder† |       | Approximate Final Volume* |      |
|------------------|-----|---------------------------|-------|---------------------------|------|
| fl oz            | mL  | scoops                    | grams | fl oz                     | mL   |
| 3.0              | 90  | 3                         | 14.1  | 3.3                       | 100  |
| 5.0              | 150 | 5                         | 23.5  | 5.5                       | 165  |
| 8.0              | 240 | 8                         | 37.6  | 9.0                       | 270  |
| 11.0             | 330 | 11                        | 51.7  | 12.2                      | 365  |
| 16.0             | 480 | 16                        | 75.2  | 17.8                      | 535  |
| 18.0             | 540 | 18                        | 84.6  | 20.0                      | 600  |
| 20.0             | 600 | 20                        | 94.0  | 22.2                      | 665  |
| 24.0             | 720 | 24                        | 112.8 | 26.7                      | 800  |
| 28.0             | 840 | 28                        | 131.6 | 31.1                      | 935  |
| 32.0             | 960 | 32                        | 150.4 | 35.6                      | 1065 |

24 kcal/fl oz

| Volume of Water* |     | Amount of Neocate Powder† |       | Approximate Final Volume* |      |
|------------------|-----|---------------------------|-------|---------------------------|------|
| fl oz            | mL  | scoops                    | grams | fl oz                     | mL   |
| 6.5              | 195 | 8                         | 37.6  | 7.4                       | 220  |
| 9.0              | 270 | 11                        | 51.7  | 10.2                      | 305  |
| 10.5             | 315 | 13                        | 61.1  | 11.9                      | 360  |
| 11.5             | 345 | 14                        | 65.8  | 13.1                      | 390  |
| 14.0             | 420 | 17                        | 79.9  | 15.9                      | 475  |
| 18.0             | 540 | 22                        | 103.4 | 20.4                      | 615  |
| 21.0             | 630 | 26                        | 122.2 | 23.9                      | 715  |
| 24.0             | 720 | 29                        | 136.3 | 27.2                      | 815  |
| 28.0             | 840 | 34                        | 159.8 | 31.8                      | 955  |
| 30.0             | 900 | 37                        | 173.9 | 34.1                      | 1025 |

28 kcal/fl oz

| Volume of Water* |     | Amount of Neocate Powder† |       | Approximate Final Volume* |      |
|------------------|-----|---------------------------|-------|---------------------------|------|
| fl oz            | mL  | scoops                    | grams | fl oz                     | mL   |
| 5.5              | 165 | 8                         | 37.6  | 6.4                       | 190  |
| 7.5              | 225 | 11                        | 51.7  | 8.7                       | 260  |
| 9.0              | 270 | 13                        | 61.1  | 10.4                      | 315  |
| 11.0             | 330 | 16                        | 75.2  | 12.8                      | 385  |
| 13.0             | 390 | 19                        | 89.3  | 15.1                      | 455  |
| 17.0             | 510 | 25                        | 118   | 19.8                      | 595  |
| 20.0             | 600 | 29                        | 136   | 23.2                      | 695  |
| 24.0             | 720 | 35                        | 165   | 27.9                      | 835  |
| 27.0             | 810 | 39                        | 183   | 31.3                      | 940  |
| 32.0             | 960 | 47                        | 221   | 37.2                      | 1115 |

22 kcal/fl oz

| Volume of Water* |     | Amount of Neocate Powder† |       | Approximate Final Volume* |      |
|------------------|-----|---------------------------|-------|---------------------------|------|
| fl oz            | mL  | scoops                    | grams | fl oz                     | mL   |
| 4.5              | 135 | 5                         | 23.5  | 5.1                       | 150  |
| 5.5              | 165 | 6                         | 28.2  | 6.2                       | 185  |
| 8.0              | 240 | 9                         | 42.3  | 9.0                       | 270  |
| 11.0             | 330 | 12                        | 56.4  | 12.3                      | 370  |
| 14.5             | 435 | 16                        | 75.2  | 16.3                      | 490  |
| 17.0             | 510 | 19                        | 89.3  | 19.1                      | 575  |
| 21.0             | 630 | 23                        | 108.1 | 23.6                      | 705  |
| 25.0             | 750 | 28                        | 131.6 | 28.1                      | 845  |
| 29.0             | 870 | 32                        | 150.4 | 32.6                      | 975  |
| 33.0             | 990 | 37                        | 173.9 | 37.1                      | 1115 |

26 kcal/fl oz

| Volume of Water* |     | Amount of Neocate Powder† |       | Approximate Final Volume* |      |
|------------------|-----|---------------------------|-------|---------------------------|------|
| fl oz            | mL  | scoops                    | grams | fl oz                     | mL   |
| 1.5              | 45  | 2                         | 9.4   | 1.7                       | 50   |
| 3.0              | 90  | 4                         | 18.8  | 3.4                       | 105  |
| 6.0              | 180 | 8                         | 37.6  | 6.9                       | 205  |
| 9.0              | 270 | 12                        | 56.4  | 10.3                      | 310  |
| 14.0             | 420 | 19                        | 89.3  | 16.1                      | 485  |
| 17.0             | 510 | 23                        | 108.1 | 19.6                      | 585  |
| 21.0             | 630 | 28                        | 131.6 | 24.1                      | 725  |
| 24.0             | 720 | 32                        | 150.4 | 27.6                      | 825  |
| 28.0             | 840 | 37                        | 173.9 | 32.1                      | 965  |
| 32.0             | 960 | 43                        | 202.1 | 36.8                      | 1105 |

30 kcal/fl oz

| Volume of Water* |     | Amount of Neocate Powder† |       | Approximate Final Volume* |      |
|------------------|-----|---------------------------|-------|---------------------------|------|
| fl oz            | mL  | scoops                    | grams | fl oz                     | mL   |
| 2.5              | 75  | 4                         | 18.8  | 2.9                       | 90   |
| 5.0              | 150 | 8                         | 37.6  | 5.9                       | 175  |
| 9.5              | 285 | 15                        | 70.5  | 11.2                      | 335  |
| 11.5             | 345 | 18                        | 84.6  | 13.5                      | 405  |
| 14.0             | 420 | 22                        | 103.4 | 16.4                      | 495  |
| 17.0             | 510 | 27                        | 126.9 | 20.0                      | 600  |
| 20.0             | 600 | 32                        | 150.4 | 23.6                      | 705  |
| 24.0             | 720 | 38                        | 178.6 | 28.2                      | 845  |
| 28.0             | 840 | 44                        | 206.8 | 32.9                      | 985  |
| 32.0             | 960 | 51                        | 239.7 | 37.7                      | 1130 |

\* This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.

† Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 4.7 grams powder and provides 22.33 kcal. 1 gram provides 4.75 kcal and displaces ~0.71 mL water.

Dilution Charts



20 kcal/fl oz (Standard dilution)

| Volume of Water* |     | Amount of Neocate Powder† |       | Approximate Final Volume* |      |
|------------------|-----|---------------------------|-------|---------------------------|------|
| fl oz            | mL  | scoops                    | grams | fl oz                     | mL   |
| 3.0              | 90  | 3                         | 13.8  | 3.3                       | 100  |
| 5.0              | 150 | 5                         | 23.0  | 5.5                       | 166  |
| 7.0              | 210 | 7                         | 32.2  | 7.8                       | 233  |
| 11.0             | 330 | 11                        | 50.6  | 12.2                      | 365  |
| 15.0             | 450 | 15                        | 69.0  | 16.6                      | 498  |
| 18.0             | 540 | 18                        | 82.8  | 19.9                      | 598  |
| 22.0             | 660 | 22                        | 101.2 | 24.4                      | 731  |
| 25.0             | 750 | 25                        | 115.0 | 27.7                      | 831  |
| 29.0             | 870 | 29                        | 133.4 | 32.1                      | 963  |
| 31.0             | 930 | 31                        | 142.6 | 34.3                      | 1030 |

24 kcal/fl oz

| Volume of Water* |     | Amount of Neocate Powder† |       | Approximate Final Volume* |      |
|------------------|-----|---------------------------|-------|---------------------------|------|
| fl oz            | mL  | scoops                    | grams | fl oz                     | mL   |
| 2.5              | 75  | 3                         | 13.8  | 2.8                       | 85   |
| 5.0              | 150 | 6                         | 27.6  | 5.6                       | 169  |
| 6.5              | 195 | 8                         | 36.8  | 7.4                       | 221  |
| 10.5             | 315 | 13                        | 59.8  | 11.9                      | 357  |
| 14.0             | 420 | 17                        | 78.2  | 15.8                      | 475  |
| 18.0             | 540 | 22                        | 101.2 | 20.4                      | 611  |
| 21.5             | 645 | 26                        | 119.6 | 24.3                      | 729  |
| 24.5             | 735 | 30                        | 138   | 27.7                      | 832  |
| 28.5             | 855 | 35                        | 161   | 32.3                      | 968  |
| 32.0             | 960 | 39                        | 179.4 | 36.2                      | 1086 |

28 kcal/fl oz

| Volume of Water* |     | Amount of Neocate Powder† |       | Approximate Final Volume* |      |
|------------------|-----|---------------------------|-------|---------------------------|------|
| fl oz            | mL  | scoops                    | grams | fl oz                     | mL   |
| 5.5              | 165 | 8                         | 36.8  | 6.4                       | 191  |
| 7.5              | 225 | 11                        | 50.6  | 8.7                       | 260  |
| 9.0              | 270 | 13                        | 59.8  | 10.4                      | 312  |
| 11.0             | 330 | 16                        | 73.6  | 12.7                      | 382  |
| 14.5             | 435 | 21                        | 96.6  | 16.8                      | 503  |
| 17.0             | 510 | 25                        | 115.0 | 19.7                      | 591  |
| 20.5             | 615 | 30                        | 138.0 | 23.7                      | 712  |
| 24.0             | 720 | 35                        | 161.0 | 27.8                      | 833  |
| 28.0             | 840 | 41                        | 188.6 | 32.4                      | 972  |
| 31.5             | 945 | 46                        | 211.6 | 36.4                      | 1093 |

22 kcal/fl oz

| Volume of Water* |     | Amount of Neocate Powder† |       | Approximate Final Volume* |      |
|------------------|-----|---------------------------|-------|---------------------------|------|
| fl oz            | mL  | scoops                    | grams | fl oz                     | mL   |
| 4.5              | 135 | 5                         | 23.0  | 5.0                       | 151  |
| 5.5              | 165 | 6                         | 27.6  | 6.1                       | 184  |
| 8.0              | 240 | 9                         | 41.4  | 9.0                       | 269  |
| 11.0             | 330 | 12                        | 55.2  | 12.3                      | 369  |
| 14.5             | 435 | 16                        | 73.6  | 16.2                      | 487  |
| 18.0             | 540 | 20                        | 92.0  | 20.1                      | 604  |
| 22.0             | 660 | 24                        | 110.4 | 24.6                      | 737  |
| 25.5             | 765 | 28                        | 128.8 | 28.5                      | 855  |
| 29.0             | 870 | 32                        | 147.2 | 32.4                      | 973  |
| 32.5             | 975 | 36                        | 165.6 | 36.4                      | 1091 |

26 kcal/fl oz

| Volume of Water* |     | Amount of Neocate Powder† |       | Approximate Final Volume* |      |
|------------------|-----|---------------------------|-------|---------------------------|------|
| fl oz            | mL  | scoops                    | grams | fl oz                     | mL   |
| 3.0              | 90  | 4                         | 18.4  | 3.4                       | 103  |
| 4.5              | 135 | 6                         | 27.6  | 5.1                       | 154  |
| 7.5              | 225 | 10                        | 46.0  | 8.6                       | 257  |
| 10.5             | 315 | 14                        | 64.4  | 12.0                      | 360  |
| 14.0             | 420 | 19                        | 87.4  | 16.0                      | 481  |
| 18.0             | 540 | 24                        | 110.4 | 20.6                      | 617  |
| 21.0             | 630 | 28                        | 128.8 | 24.0                      | 720  |
| 24.5             | 735 | 33                        | 151.8 | 28.0                      | 841  |
| 27.5             | 825 | 37                        | 170.2 | 31.5                      | 944  |
| 30.0             | 900 | 40                        | 184.0 | 34.3                      | 1029 |

30 kcal/fl oz

| Volume of Water* |     | Amount of Neocate Powder† |       | Approximate Final Volume* |      |
|------------------|-----|---------------------------|-------|---------------------------|------|
| fl oz            | mL  | scoops                    | grams | fl oz                     | mL   |
| 2.5              | 75  | 4                         | 18.4  | 2.9                       | 88   |
| 5.0              | 150 | 8                         | 36.8  | 5.9                       | 176  |
| 7.0              | 210 | 11                        | 50.6  | 8.2                       | 245  |
| 10.0             | 300 | 16                        | 73.6  | 11.7                      | 352  |
| 14.0             | 420 | 22                        | 101.2 | 16.4                      | 491  |
| 17.0             | 510 | 27                        | 124.2 | 19.9                      | 597  |
| 20.5             | 615 | 32                        | 147.2 | 23.9                      | 718  |
| 24.0             | 720 | 38                        | 174.8 | 28.1                      | 842  |
| 28.0             | 840 | 44                        | 202.4 | 32.7                      | 982  |
| 31.0             | 930 | 49                        | 225.4 | 36.3                      | 1088 |

\* This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.

† Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 4.6 grams powder and provides 22.22 kcal. 1 gram provides 4.83 kcal and displaces ~0.70 mL water.

# Neocate® Junior, Unflavored (without prebiotics)

Upgraded as of 2018

## Dilution Charts

### 20 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 8             | 240 | 5               | 36.5  | 8.8           | 265 |
| 11            | 330 | 7               | 51.1  | 12.2          | 365 |
| 16            | 480 | 10              | 73.0  | 17.7          | 530 |
| 22            | 660 | 14              | 102   | 24.4          | 730 |
| 30            | 900 | 19              | 139   | 33.2          | 995 |

### 22 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |      |
|---------------|-----|-----------------|-------|---------------|------|
| fl oz         | mL  | scoops          | grams | fl oz         | mL   |
| 7             | 210 | 5               | 36.5  | 7.8           | 235  |
| 10            | 300 | 7               | 51.1  | 11.2          | 335  |
| 14            | 420 | 10              | 73.0  | 15.7          | 470  |
| 21            | 630 | 15              | 110   | 23.5          | 705  |
| 30            | 900 | 21              | 153   | 33.5          | 1005 |

### 24 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 6.5           | 195 | 5               | 36.5  | 7.3           | 220 |
| 9             | 270 | 7               | 51.1  | 10.2          | 305 |
| 14            | 420 | 11              | 80.3  | 15.8          | 475 |
| 22            | 660 | 17              | 124   | 24.9          | 745 |
| 28            | 840 | 22              | 161   | 31.7          | 950 |

### 27 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 4.5           | 135 | 4               | 29.2  | 5.2           | 155 |
| 8             | 240 | 7               | 51.1  | 9.2           | 275 |
| 10            | 300 | 9               | 65.7  | 11.5          | 345 |
| 20            | 600 | 18              | 131   | 23.0          | 690 |
| 28            | 840 | 25              | 183   | 32.2          | 965 |

### 30 kcal/fl oz (Standard dilution)

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 4             | 120 | 4               | 29.2  | 4.7           | 140 |
| 7             | 210 | 7               | 51.1  | 8.2           | 245 |
| 10            | 300 | 10              | 73.0  | 11.7          | 350 |
| 21            | 630 | 21              | 153   | 24.5          | 735 |
| 28            | 840 | 28              | 204   | 32.7          | 980 |

### 36 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 4             | 120 | 5               | 36.5  | 4.8           | 145 |
| 6.5           | 195 | 8               | 58.4  | 7.8           | 235 |
| 10.5          | 315 | 13              | 94.9  | 12.7          | 380 |
| 20            | 600 | 25              | 183   | 24.2          | 725 |
| 26            | 780 | 32              | 234   | 31.4          | 940 |

### 40 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 3.5           | 105 | 5               | 36.5  | 4.3           | 130 |
| 7             | 210 | 10              | 73.0  | 8.7           | 260 |
| 12            | 360 | 17              | 124   | 14.9          | 445 |
| 19            | 570 | 27              | 197   | 23.5          | 705 |
| 26            | 780 | 37              | 270   | 32.2          | 965 |

### 45 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 5.5           | 165 | 9               | 65.7  | 7.0           | 210 |
| 8.5           | 255 | 14              | 102   | 10.9          | 325 |
| 11            | 330 | 18              | 131   | 14.0          | 420 |
| 19            | 570 | 31              | 226   | 24.2          | 725 |
| 25            | 750 | 41              | 299   | 31.9          | 955 |

# Neocate® Junior with Prebiotics, Unflavored

Upgraded as of late 2018

## Dilution Charts

### 20 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 6.5           | 195 | 4               | 30.8  | 7.3           | 220 |
| 8             | 240 | 5               | 38.5  | 9.0           | 270 |
| 13            | 390 | 8               | 61.6  | 14.5          | 435 |
| 21            | 630 | 13              | 100   | 23.5          | 705 |
| 29            | 870 | 18              | 139   | 32.4          | 975 |

### 22 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 11.5          | 345 | 8               | 61.6  | 13.0          | 390 |
| 16            | 480 | 11              | 84.7  | 18.1          | 545 |
| 19            | 570 | 13              | 100   | 21.5          | 645 |
| 23            | 690 | 16              | 123   | 26.0          | 780 |
| 29            | 870 | 20              | 154   | 32.8          | 985 |

### 24 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 4             | 120 | 3               | 23.1  | 4.6           | 135 |
| 8             | 240 | 6               | 46.2  | 9.1           | 275 |
| 10.5          | 315 | 8               | 61.6  | 12.0          | 360 |
| 21            | 630 | 16              | 123   | 24.0          | 720 |
| 28            | 840 | 21              | 162   | 32.0          | 960 |

### 27 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 3.5           | 105 | 3               | 23.1  | 4.1           | 120 |
| 7             | 210 | 6               | 46.2  | 8.1           | 245 |
| 10.5          | 315 | 9               | 69.3  | 12.2          | 365 |
| 21            | 630 | 18              | 139   | 24.4          | 735 |
| 28            | 840 | 24              | 185   | 32.6          | 975 |

### 30 kcal/fl oz (Standard dilution)

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 4             | 120 | 4               | 30.8  | 4.7           | 145 |
| 7             | 210 | 7               | 53.9  | 8.3           | 250 |
| 10            | 300 | 10              | 77.0  | 11.9          | 355 |
| 21            | 630 | 21              | 162   | 24.9          | 750 |
| 28            | 840 | 27              | 208   | 33.1          | 995 |

### 36 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 6.5           | 195 | 8               | 61.6  | 8.0           | 240 |
| 9             | 270 | 11              | 84.7  | 11.1          | 335 |
| 13            | 390 | 16              | 123   | 16.0          | 480 |
| 19            | 570 | 23              | 177   | 23.4          | 700 |
| 26            | 780 | 32              | 246   | 32.1          | 960 |

### 40 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 5             | 150 | 7               | 53.9  | 6.3           | 190 |
| 10            | 300 | 14              | 108   | 12.7          | 380 |
| 15            | 450 | 21              | 162   | 19.0          | 570 |
| 20            | 600 | 28              | 216   | 25.3          | 760 |
| 25            | 750 | 35              | 270   | 31.6          | 950 |

### 45 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 8             | 240 | 13              | 100   | 10.5          | 315 |
| 10.5          | 315 | 17              | 131   | 13.7          | 410 |
| 13            | 390 | 21              | 162   | 17.0          | 510 |
| 19            | 570 | 31              | 239   | 24.9          | 745 |
| 24            | 720 | 39              | 300   | 31.4          | 940 |

\*This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.  
†Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 7.3 grams powder and provides 35.0 kcal. 1 gram provides 4.79 kcal and displaces ~0.69 mL water.  
Visit [www.NutriciaLearningCenter](http://www.NutriciaLearningCenter) for printable dilution charts and the Neocate Mixing Tool.

\*This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.  
†Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 7.7 grams powder and provides 36.3 kcal. 1 gram provides 4.72 kcal and displaces ~0.74 mL water.  
Visit [www.NutriciaLearningCenter](http://www.NutriciaLearningCenter) for printable dilution charts and the Neocate Mixing Tool.

# Neocate® Junior, Vanilla & Strawberry

Upgraded as of late 2018

## Dilution Charts

### 20 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 11            | 330 | 7               | 51.1  | 12.2          | 365 |
| 14            | 420 | 9               | 65.7  | 15.5          | 465 |
| 17            | 510 | 11              | 80.3  | 18.9          | 565 |
| 22            | 660 | 14              | 102   | 24.4          | 730 |
| 30            | 900 | 19              | 139   | 33.2          | 995 |

### 30 kcal/fl oz (Standard dilution)

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 4             | 120 | 4               | 29.2  | 4.7           | 140 |
| 7             | 210 | 7               | 51.1  | 8.2           | 245 |
| 16            | 480 | 16              | 117   | 18.7          | 560 |
| 21            | 630 | 21              | 153   | 24.6          | 735 |
| 28            | 840 | 29              | 212   | 32.9          | 990 |

### 22 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 5.5           | 165 | 4               | 29.2  | 6.2           | 185 |
| 8.5           | 255 | 6               | 43.8  | 9.5           | 285 |
| 14            | 420 | 10              | 73    | 15.7          | 470 |
| 22            | 660 | 16              | 117   | 24.7          | 740 |
| 29            | 870 | 21              | 153   | 32.6          | 975 |

### 36 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 5.5           | 165 | 7               | 51.1  | 6.7           | 200 |
| 9.5           | 285 | 12              | 87.6  | 11.5          | 345 |
| 15            | 450 | 19              | 139   | 18.2          | 545 |
| 22            | 660 | 28              | 204   | 26.8          | 805 |
| 27            | 810 | 34              | 248   | 32.8          | 985 |

### 24 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 5             | 150 | 4               | 29.2  | 5.7           | 170 |
| 7.5           | 225 | 6               | 43.8  | 8.5           | 255 |
| 10            | 300 | 8               | 58.4  | 11.4          | 340 |
| 20            | 600 | 16              | 117   | 22.7          | 680 |
| 28            | 840 | 22              | 161   | 31.7          | 950 |

### 40 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 5.5           | 165 | 8               | 58.4  | 6.9           | 205 |
| 9             | 270 | 13              | 94.9  | 11.2          | 335 |
| 13            | 390 | 19              | 139   | 16.2          | 485 |
| 20            | 600 | 29              | 212   | 24.9          | 750 |
| 26            | 780 | 38              | 277   | 32.4          | 975 |

### 27 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 5.5           | 165 | 5               | 36.5  | 6.4           | 190 |
| 10            | 300 | 9               | 65.7  | 11.5          | 345 |
| 19            | 570 | 17              | 124   | 21.9          | 655 |
| 21            | 630 | 19              | 139   | 24.2          | 725 |
| 28            | 840 | 25              | 183   | 32.2          | 970 |

### 45 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 3             | 90  | 5               | 36.5  | 3.9           | 115 |
| 6             | 180 | 10              | 73    | 7.7           | 230 |
| 12            | 360 | 20              | 146   | 15.4          | 460 |
| 19            | 570 | 32              | 234   | 24.5          | 735 |
| 25            | 750 | 42              | 307   | 32.2          | 965 |

\*This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.  
 †Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 7.3 grams powder and provides 34.5 kcal. 1 gram provides 4.72 kcal and displaces ~0.70 mL water.  
 Visit [www.NutriciaLearningCenter.com](http://www.NutriciaLearningCenter.com) for printable dilution charts and the Neocate Mixing Tool.

# Neocate® Junior, Chocolate

Upgraded as of late 2018

## Dilution Charts

### 20 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 11            | 330 | 7               | 52.5  | 12.2          | 365 |
| 14            | 420 | 9               | 67.5  | 15.6          | 465 |
| 17            | 510 | 11              | 82.5  | 18.9          | 570 |
| 20            | 600 | 13              | 97.5  | 22.3          | 670 |
| 29            | 870 | 19              | 143   | 32.3          | 970 |

### 30 kcal/fl oz (Standard dilution)

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 4             | 120 | 4               | 30.0  | 4.7           | 140 |
| 7             | 210 | 7               | 52.5  | 8.3           | 245 |
| 10            | 300 | 10              | 75.0  | 11.8          | 355 |
| 21            | 630 | 21              | 158   | 24.9          | 740 |
| 28            | 840 | 29              | 218   | 33.1          | 990 |

### 22 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 5.5           | 165 | 4               | 30.0  | 6.2           | 185 |
| 8.5           | 255 | 6               | 45.0  | 9.6           | 285 |
| 14            | 420 | 10              | 75.0  | 15.8          | 475 |
| 21            | 630 | 15              | 113   | 23.6          | 710 |
| 29            | 870 | 21              | 158   | 32.7          | 980 |

### 36 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |      |
|---------------|-----|-----------------|-------|---------------|------|
| fl oz         | mL  | scoops          | grams | fl oz         | mL   |
| 5.5           | 165 | 7               | 52.5  | 6.7           | 200  |
| 7             | 210 | 9               | 67.5  | 8.6           | 255  |
| 11            | 330 | 14              | 105   | 13.5          | 405  |
| 21            | 630 | 27              | 203   | 25.7          | 770  |
| 28            | 840 | 36              | 270   | 34.3          | 1030 |

### 24 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 5             | 150 | 4               | 30.0  | 5.7           | 170 |
| 7.5           | 225 | 6               | 45.0  | 8.6           | 255 |
| 15            | 450 | 12              | 90.0  | 17.1          | 515 |
| 20            | 600 | 16              | 120   | 22.8          | 685 |
| 28            | 840 | 22              | 165   | 31.9          | 955 |

### 40 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 5.5           | 165 | 8               | 60.0  | 6.9           | 205 |
| 7.5           | 225 | 11              | 82.5  | 9.4           | 285 |
| 13            | 390 | 19              | 143   | 16.3          | 490 |
| 20            | 600 | 29              | 218   | 25.1          | 750 |
| 26            | 780 | 38              | 285   | 32.7          | 980 |

### 27 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |      |
|---------------|-----|-----------------|-------|---------------|------|
| fl oz         | mL  | scoops          | grams | fl oz         | mL   |
| 5.5           | 165 | 5               | 37.5  | 6.4           | 190  |
| 10            | 300 | 9               | 67.5  | 11.6          | 345  |
| 15.5          | 465 | 14              | 105   | 18.0          | 540  |
| 21            | 630 | 19              | 143   | 24.3          | 730  |
| 29            | 870 | 26              | 195   | 33.6          | 1005 |

### 45 kcal/fl oz

| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
|---------------|-----|-----------------|-------|---------------|-----|
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 6.5           | 195 | 11              | 82.5  | 8.4           | 255 |
| 9.5           | 285 | 16              | 120   | 12.3          | 370 |
| 16            | 480 | 27              | 203   | 20.7          | 620 |
| 20            | 600 | 34              | 255   | 26.0          | 780 |
| 25            | 750 | 42              | 315   | 32.4          | 970 |

\*This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.  
 †Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 7.5 grams powder and provides 34.5 kcal. 1 gram provides 4.60 kcal and displaces ~0.70 mL water.  
 Visit [www.NutriciaLearningCenter.com](http://www.NutriciaLearningCenter.com) for printable dilution charts and the Neocate Mixing Tool.

# Neocate® Junior, Tropical

Upgraded as of late 2018

## Dilution Charts

| 20 kcal/fl oz |     |                 |       |               |      |
|---------------|-----|-----------------|-------|---------------|------|
| Water Volume* |     | Neocate Powder† |       | Final Volume* |      |
| fl oz         | mL  | scoops          | grams | fl oz         | mL   |
| 4.5           | 135 | 3               | 21.9  | 5.0           | 150  |
| 7.5           | 225 | 5               | 36.5  | 8.3           | 250  |
| 12            | 360 | 8               | 58.4  | 13.4          | 400  |
| 22            | 660 | 15              | 110   | 24.5          | 735  |
| 30            | 900 | 20              | 146   | 33.4          | 1000 |

| 22 kcal/fl oz |     |                 |       |               |     |
|---------------|-----|-----------------|-------|---------------|-----|
| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 4             | 120 | 3               | 21.9  | 4.5           | 135 |
| 8             | 240 | 6               | 43.8  | 9.0           | 270 |
| 12            | 360 | 9               | 65.7  | 13.5          | 405 |
| 21            | 630 | 16              | 117   | 23.7          | 710 |
| 28            | 840 | 21              | 153   | 31.6          | 945 |

| 24 kcal/fl oz |     |                 |       |               |     |
|---------------|-----|-----------------|-------|---------------|-----|
| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 6             | 180 | 5               | 36.5  | 6.8           | 205 |
| 8.5           | 255 | 7               | 51.1  | 9.7           | 290 |
| 12            | 360 | 10              | 73.0  | 13.7          | 410 |
| 23            | 690 | 19              | 139   | 26.2          | 785 |
| 28            | 840 | 23              | 168   | 31.9          | 955 |

| 27 kcal/fl oz |     |                 |       |               |      |
|---------------|-----|-----------------|-------|---------------|------|
| Water Volume* |     | Neocate Powder† |       | Final Volume* |      |
| fl oz         | mL  | scoops          | grams | fl oz         | mL   |
| 8.5           | 255 | 8               | 58.4  | 9.9           | 295  |
| 10.5          | 315 | 10              | 73.0  | 12.2          | 365  |
| 16            | 480 | 15              | 110   | 18.5          | 555  |
| 21            | 630 | 20              | 146   | 24.4          | 730  |
| 32            | 960 | 30              | 219   | 37.1          | 1110 |

| 30 kcal/fl oz (Standard dilution) |     |                 |       |               |      |
|-----------------------------------|-----|-----------------|-------|---------------|------|
| Water Volume*                     |     | Neocate Powder† |       | Final Volume* |      |
| fl oz                             | mL  | scoops          | grams | fl oz         | mL   |
| 4                                 | 120 | 4               | 29.2  | 4.7           | 140  |
| 7                                 | 210 | 7               | 51.1  | 8.2           | 245  |
| 11                                | 330 | 11              | 80.3  | 12.9          | 385  |
| 21                                | 630 | 21              | 153   | 24.6          | 735  |
| 29                                | 870 | 31              | 226   | 34.2          | 1025 |

| 36 kcal/fl oz |     |                 |       |               |     |
|---------------|-----|-----------------|-------|---------------|-----|
| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 3             | 90  | 4               | 29.2  | 3.7           | 110 |
| 6             | 180 | 8               | 58.4  | 7.4           | 220 |
| 12            | 360 | 16              | 117   | 14.7          | 440 |
| 20            | 600 | 27              | 197   | 24.6          | 735 |
| 26            | 780 | 35              | 256   | 31.9          | 960 |

| 40 kcal/fl oz |     |                 |       |               |     |
|---------------|-----|-----------------|-------|---------------|-----|
| Water Volume* |     | Neocate Powder† |       | Final Volume* |     |
| fl oz         | mL  | scoops          | grams | fl oz         | mL  |
| 6.5           | 195 | 10              | 73.0  | 8.2           | 245 |
| 10.5          | 315 | 16              | 117   | 13.2          | 395 |
| 13            | 390 | 20              | 146   | 16.4          | 490 |
| 19            | 570 | 29              | 212   | 23.9          | 715 |
| 26            | 780 | 40              | 292   | 32.8          | 985 |

| 45 kcal/fl oz |     |                 |       |               |      |
|---------------|-----|-----------------|-------|---------------|------|
| Water Volume* |     | Neocate Powder† |       | Final Volume* |      |
| fl oz         | mL  | scoops          | grams | fl oz         | mL   |
| 4.5           | 135 | 8               | 58.4  | 5.9           | 175  |
| 8.5           | 255 | 15              | 110   | 11.0          | 330  |
| 13            | 390 | 23              | 168   | 16.9          | 505  |
| 18            | 540 | 32              | 234   | 23.4          | 700  |
| 26            | 780 | 46              | 336   | 33.8          | 1015 |

\*This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.  
 †Scoops should be level and unpacked. While the scoops Nutricia provides are validated for use with Nutricia formulas, weighing powder using a gram scale provides greatest accuracy. 1 level, unpacked scoop yields 7.3 grams powder and provides 32.9 kcal. 1 gram provides 4.51 kcal and displaces ~0.70 mL water.  
 Visit [www.NutriciaLearningCenter.com](http://www.NutriciaLearningCenter.com) for printable dilution charts and the Neocate Mixing Tool.

# Neocate® Splash

## Concentration Charts - Add Neocate Junior, Unflavored



| 35 kcal/fl oz          |     |                        |       |                       |     |
|------------------------|-----|------------------------|-------|-----------------------|-----|
| Neocate Splash Volume* |     | Neocate Junior Powder† |       | Approx. Final Volume* |     |
| fl oz                  | mL  | scoops                 | grams | fl oz                 | mL  |
| 5                      | 150 | 1                      | 7.3   | 5.2                   | 155 |
| 11                     | 330 | 2                      | 14.6  | 11.5                  | 340 |
| 2 drink boxes          | 474 | 3                      | 21.9  | 16.5                  | 489 |
| 21                     | 630 | 4                      | 29.2  | 22.0                  | 650 |
| 4 drink boxes          | 948 | 6                      | 43.8  | 33.1                  | 978 |

| 40 kcal/fl oz          |     |                        |       |                       |      |
|------------------------|-----|------------------------|-------|-----------------------|------|
| Neocate Splash Volume* |     | Neocate Junior Powder† |       | Approx. Final Volume* |      |
| fl oz                  | mL  | scoops                 | grams | fl oz                 | mL   |
| 5.5                    | 165 | 2                      | 14.6  | 5.9                   | 175  |
| 1 drink box            | 237 | 3                      | 21.9  | 8.5                   | 252  |
| 2 drink boxes          | 474 | 6                      | 43.8  | 17.1                  | 504  |
| 3 drink boxes          | 711 | 9                      | 65.7  | 25.6                  | 756  |
| 4 drink boxes          | 948 | 12                     | 87.6  | 34.1                  | 1008 |

| 45 kcal/fl oz          |     |                        |       |                       |      |
|------------------------|-----|------------------------|-------|-----------------------|------|
| Neocate Splash Volume* |     | Neocate Junior Powder† |       | Approx. Final Volume* |      |
| fl oz                  | mL  | scoops                 | grams | fl oz                 | mL   |
| 3.5                    | 105 | 2                      | 14.6  | 3.9                   | 115  |
| 7                      | 210 | 4                      | 29.2  | 7.8                   | 230  |
| 2 drink boxes          | 474 | 9                      | 65.7  | 17.6                  | 519  |
| 19                     | 570 | 11                     | 80.3  | 21.2                  | 625  |
| 4 drink boxes          | 948 | 18                     | 131   | 35.1                  | 1039 |

\*This chart assumes 1 fl oz = ~29.6 mL. 1 drink box = 8 fl oz = 237 mL and standard dilution is 30 kcal/fl oz, or 1 kcal/mL. In recipes that don't call for an even number of Neocate Splash drink boxes and those that call for adding water, mL volumes are rounded to the nearest 15 mL.  
 †Nutricia North America recommends using a scale for greatest accuracy. Dilutions are more accurate using weighed powder vs. scoops. Scoops should be level and unpacked. 1 level, unpacked scoop yields 7.3 grams powder and provides 35.0 kcal. 1 gram provides 4.79 kcal and displaces ~0.69 mL water.

## Dilution Charts - Add Water

| 20 kcal/fl oz              |                 |     |                       |      |
|----------------------------|-----------------|-----|-----------------------|------|
| Neocate Splash Drink boxes | Volume of water |     | Approx. Final Volume* |      |
|                            | fl oz           | mL  | fl oz                 | mL   |
| 1                          | 4               | 120 | 12                    | 357  |
| 2                          | 8               | 240 | 24                    | 714  |
| 3                          | 12              | 360 | 36                    | 1041 |
| 4                          | 15              | 450 | 47                    | 1398 |
| 5                          | 19              | 570 | 59                    | 1755 |

| 22 kcal/fl oz              |                 |     |                       |      |
|----------------------------|-----------------|-----|-----------------------|------|
| Neocate Splash Drink boxes | Volume of water |     | Approx. Final Volume* |      |
|                            | fl oz           | mL  | fl oz                 | mL   |
| 2                          | 5.5             | 165 | 21.5                  | 639  |
| 3                          | 8.5             | 240 | 32.5                  | 951  |
| 4                          | 11              | 330 | 43                    | 1278 |
| 5                          | 14              | 405 | 54                    | 1590 |
| 6                          | 17              | 480 | 65                    | 1902 |

| 24 kcal/fl oz              |                 |     |                       |      |
|----------------------------|-----------------|-----|-----------------------|------|
| Neocate Splash Drink boxes | Volume of water |     | Approx. Final Volume* |      |
|                            | fl oz           | mL  | fl oz                 | mL   |
| 1                          | 2               | 60  | 10                    | 297  |
| 2                          | 4               | 120 | 20                    | 594  |
| 3                          | 6               | 180 | 30                    | 891  |
| 4                          | 7               | 210 | 39                    | 1158 |
| 5                          | 9               | 270 | 49                    | 1455 |

| 27 kcal/fl oz              |                 |     |                       |      |
|----------------------------|-----------------|-----|-----------------------|------|
| Neocate Splash Drink boxes | Volume of water |     | Approx. Final Volume* |      |
|                            | fl oz           | mL  | fl oz                 | mL   |
| 2                          | 1.5             | 45  | 17.5                  | 519  |
| 3                          | 2.5             | 75  | 26.5                  | 786  |
| 4                          | 3               | 90  | 35                    | 1038 |
| 5                          | 4               | 120 | 44                    | 1305 |
| 6                          | 5               | 150 | 53                    | 1572 |

## Update on Monitoring Micronutrients

**Serum levels of micronutrients, particularly phosphorus, should be routinely monitored by clinicians when Neocate is used as a primary or sole source of nutrition for patients with complex systemic disease involving multiple diagnoses and intestinal disease,\* especially in combination with tube feeding and/or a history of prematurity. Neocate\*\* formulas are intended for use under medical supervision.**

*\* A retrospective review identified case studies of patients on primary or sole source nutrition with diagnoses covering multiple systems, including congenital gastrointestinal anomalies and GI surgeries (such as necrotizing enterocolitis, esophageal atresia, tracheoesophageal fistula); neurological conditions (such as seizures, intraventricular hemorrhage, hydrocephalus); respiratory (lung disease, tracheostomy, aspiration); cardiac (congenital heart disease); and other systemic conditions, often in conjunction with tube feeding and/or a history of prematurity.*

*\*\* Neocate is an amino acid-based formula for dietary management of cow milk allergy, multiple food protein allergies, and related GI and allergic conditions for which an amino acid-based diet is indicated.*



**Sarah**  
Diagnosed with PKU

## METABOLICS



Find more information and resources on these and all of our products at [www.NutriciaLearningCenter.com](http://www.NutriciaLearningCenter.com)



## PKU Periflex® Early Years

A phenylalanine-free powdered infant formula with iron, for the dietary management of phenylketonuria (PKU). Contains DHA and ARA, and a unique blend of prebiotic fiber.

### Main Features:

- Phenylalanine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic fiber blend
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent per 100 g of powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg  
Based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

### Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code* | Product Packaging   | Calories Per Can |
|--------------|--------------------|-------------|---------------------|------------------|
| 90164        | 49735-0101-64      | B4162       | 6 x 400 g (14.1 oz) | 1892             |

**WIC†:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g  |                    | Vitamins                          | Per 10 g   |                    |
|-----------------------|-----------|--------------------|-----------------------------------|------------|--------------------|
|                       | Per 100 g | Protein Equivalent |                                   | Per 100 g  | Protein Equivalent |
| Calories              | 473       | 350                | Vitamin A, IU (mcg RE)            | 1305 (392) | 967 (290)          |
| Protein Equivalent, g | 13.5      | 10.0               | Vitamin D <sub>3</sub> , IU (mcg) | 348 (8.7)  | 258 (6.4)          |
| Fat, g                | 23.0      | 17.0               | Vitamin E, IU (mg α-TE)           | 10.9 (7.3) | 8.1 (5.4)          |
| Saturated, g          | 7.5       | 5.6                | Vitamin K, mcg                    | 38.0       | 28.1               |
| Monounsaturated, g    | 9.4       | 7.0                | Thiamin, mcg                      | 640        | 474                |
| Polyunsaturated, g    | 5.0       | 3.7                | Riboflavin, mcg                   | 500        | 370                |
| DHA, mg               | 70.0      | 51.9               | Vitamin B <sub>6</sub> , mcg      | 500        | 370                |
| ARA, mg               | 140       | 104                | Vitamin B <sub>12</sub> , mcg     | 1.2        | 0.89               |
| Linoleic Acid, mg     | 3500      | 2593               | Niacin, mcg                       | 2200       | 1630               |
| Carbohydrate, g       | 53.0      | 39.3               | Folic Acid, mcg                   | 55.0       | 40.7               |
| Fiber, g              | 5.3       | 3.9                | Pantothenic Acid, mcg             | 2800       | 2074               |
| GOS, g                | 4.7       | 3.5                | Biotin, mcg                       | 18.2       | 13.5               |
| FOS, g                | 0.55      | 0.41               | Vitamin C, mg                     | 49.0       | 36.3               |
| <b>Amino Acids, g</b> |           |                    | Choline, mg                       | 91.0       | 67.4               |
| L-Alanine             | 0.62      | 0.46               | Inositol, mg                      | 98.0       | 72.6               |
| L-Arginine            | 1.09      | 0.81               | <b>Minerals</b>                   |            |                    |
| L-Aspartic Acid       | 1.02      | 0.76               | Calcium, mg                       | 371        | 275                |
| L-Cystine             | 0.41      | 0.30               | Phosphorus, mg                    | 270        | 200                |
| L-Glutamine           | 1.28      | 0.95               | Magnesium, mg                     | 52.5       | 38.9               |
| Glycine               | 0.96      | 0.71               | Iron, mg                          | 7.3        | 5.4                |
| L-Histidine           | 0.63      | 0.47               | Zinc, mg                          | 5.2        | 3.9                |
| L-Isoleucine          | 0.96      | 0.71               | Manganese, mcg                    | 390        | 289                |
| L-Leucine             | 1.65      | 1.2                | Copper, mcg                       | 390        | 289                |
| L-Lysine              | 1.11      | 0.82               | Iodine, mcg                       | 82.5       | 61.1               |
| L-Methionine          | 0.26      | 0.19               | Molybdenum, mcg                   | 10.9       | 8.1                |
| L-Phenylalanine       | Nil Added | Nil Added          | Chromium, mcg                     | 12.5       | 9.3                |
| L-Proline             | 1.1       | 0.81               | Selenium, mcg                     | 14.1       | 10.4               |
| L-Serine              | 0.72      | 0.53               | Sodium, mg                        | 171        | 127                |
| L-Threonine           | 0.81      | 0.6                | Potassium, mg                     | 454        | 336                |
| L-Tryptophan          | 0.31      | 0.23               | Chloride, mg                      | 321        | 238                |
| L-Tyrosine            | 1.44      | 1.07               |                                   |            |                    |
| L-Valine              | 1.05      | 0.78               |                                   |            |                    |
| L-Carnitine           | 0.01      | 0.01               |                                   |            |                    |
| Taurine               | 0.02      | 0.01               |                                   |            |                    |

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (GOS) Dried Syrup (from milk), L-Arginine, L-Aspartate, L-Leucine, L-Lysine Acetate, L-Tyrosine, L-Glutamine, L-Proline, Tricalcium Phosphate, L-Valine, CAEM (an emulsifier), Glycine, L-Isoleucine, L-Threonine, L-Serine, L-Histidine, L-Alanine, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, Sodium Phosphate Dibasic, L-Cystine, M. Alpina Oil\*, L-Tryptophan, Choline Bitartrate, L-Methionine, Magnesium Acetate, Magnesium Aspartate, C. Cohnii Oil\*\*, Sodium Chloride, M-Inositol, L-Ascorbic Acid, Ferrous Sulfate, Taurine, Zinc Sulfate, L-Carnitine, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin

**Contains:** Soy Oil, Coconut Oil, Milk.

\* A source of Arachidonic Acid (ARA)  
\*\* A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL



## PKU Periflex® Junior Plus

A phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in children over 1 year of age.

### Main Features:

- Phenylalanine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate (including a multi-fiber blend), fat (including DHA), vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- Provides 28 g protein equivalent and 12.5 g fat per 100 g of powder
- Available in plain, vanilla, berry and orange
- Osmolality (at 1.1 kcal/mL): 1340 mOsm/kg  
Based on dilution of 36 g powder (approx 4 scoops) to 3.5 fl oz (100 mL) water
- Displacement: 0.72 mL/g

### Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code    | Reimbursement Code | HCPCS Code* | Product Packaging   | Calories Per Can |
|-----------------|--------------------|-------------|---------------------|------------------|
| 89477 - Plain   | 49735-0194-77      | B4162       | 6 x 400 g (14.1 oz) | 1540             |
| 89478 - Vanilla | 49735-0194-78      | B4162       | 6 x 400 g (14.1 oz) | 1508             |
| 89474 - Berry   | 49735-0194-74      | B4162       | 6 x 400 g (14.1 oz) | 1508             |
| 89476 - Orange  | 49735-0194-76      | B4162       | 6 x 400 g (14.1 oz) | 1508             |

**WIC<sup>†</sup>: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients                 | Per 10 g    |                    | Vitamins                          | Per 10 g   |                    |
|---------------------------|-------------|--------------------|-----------------------------------|------------|--------------------|
|                           | Per 100 g   | Protein Equivalent |                                   | Per 100 g  | Protein Equivalent |
| Calories (flavors)        | 385 (377)   | 138 (135)          | Vitamin A, IU (mcg RE)            | 1399 (420) | 500 (150)          |
| Protein Equivalent, g     | 28          | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 840 (21.0) | 300 (7.5)          |
| Fat, g                    | 12.5        | 4.5                | Vitamin E, IU (mg α-TE)           | 12.5 (8.4) | 4.5 (3)            |
| Saturated, g              | 2           | 0.71               | Vitamin K, mcg                    | 14         | 5                  |
| Monounsaturated, g        | 8.2         | 2.9                | Thiamin, mg                       | 0.93       | 0.33               |
| Polyunsaturated, g        | 1.8         | 0.64               | Riboflavin, mg                    | 0.73       | 0.26               |
| DHA, mg                   | 180         | 64.3               | Vitamin B <sub>6</sub> , mg       | 0.73       | 0.26               |
| Carbohydrate, g (flavors) | 43.2 (41.2) | 15.4 (14.7)        | Vitamin B <sub>12</sub> , mcg     | 1.3        | 0.46               |
| Fiber, g                  | 11.2        | 4                  | Niacin, mg                        | 2.0        | 0.71               |
| Soluble                   | 8           | 2.9                | Folic Acid, mcg                   | 210        | 75                 |
| Insoluble                 | 3.2         | 1.1                | Pantothenic Acid, mg              | 4.2        | 1.5                |
| <b>Amino Acids, g</b>     |             |                    | Biotin, mcg                       | 11.2       | 4                  |
| L-Alanine                 | 4.76        | 1.7                | Vitamin C, mg                     | 42         | 15                 |
| L-Arginine                | 1.74        | 0.62               | Choline, mg                       | 224        | 80                 |
| L-Aspartic Acid           | 0.42        | 0.15               | Inositol, mg                      | 56         | 20                 |
| L-Cystine                 | 1.9         | 0.68               | <b>Minerals</b>                   |            |                    |
| L-Glutamine               | 3.36        | 1.2                | Calcium, mg                       | 980        | 350                |
| Glycine                   | 4.59        | 1.6                | Phosphorus, mg                    | 641        | 229                |
| L-Histidine               | 0.7         | 0.25               | Magnesium, mg                     | 113        | 40.4               |
| L-Isoleucine              | 1.4         | 0.50               | Iron, mg                          | 10         | 3.6                |
| L-Leucine                 | 2.24        | 0.80               | Zinc, mg                          | 4.9        | 1.8                |
| L-Lysine                  | 1.85        | 0.66               | Manganese, mg                     | 0.92       | 0.33               |
| L-Methionine              | 0.73        | 0.26               | Copper, mcg                       | 560        | 200                |
| L-Phenylalanine           | Nil Added   | Nil Added          | Iodine, mcg                       | 139        | 49.6               |
| L-Proline                 | 2.24        | 0.80               | Molybdenum, mcg                   | 25.5       | 9.1                |
| L-Serine                  | 1.2         | 0.43               | Chromium, mcg                     | 10.2       | 3.6                |
| L-Threonine               | 2.52        | 0.90               | Selenium, mcg                     | 28.2       | 10.1               |
| L-Tryptophan              | 0.42        | 0.15               | Sodium, mg                        | 280        | 100                |
| L-Tyrosine                | 2.66        | 1.0                | Potassium, mg                     | 445        | 159                |
| L-Valine                  | 1.68        | 0.60               | Chloride, mg                      | 406        | 145                |
| L-Carnitine               | 0.02        | 0.01               |                                   |            |                    |
| Taurine                   | 0.05        | 0.02               |                                   |            |                    |

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), L-Alanine, Glycine, Fructo-oligosaccharides, L-Glutamine, Inulin, Corn Starch, L-Tyrosine, Calcium Phosphate Dibasic, L-Lysine Acetate, L-Threonine, Microcrystalline Cellulose, L-Leucine, L-Proline, Artificial Flavor, Gum Arabic, L-Cystine, L-Arginine, L-Valine, L-Isoleucine, Tripotassium Citrate, Trisodium Citrate, L-Serine, Calcium Chloride, L-Methionine, L-Histidine, Maltodextrin, Choline Bitartrate, Magnesium Hydrogen Phosphate, Magnesium L-Aspartate, CAEM (an emulsifier), C. *Cohnii* Oil<sup>†</sup>, L-Tryptophan, Tricalcium Citrate, L-Ascorbic Acid, Soy Fiber, M-Inositol, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Folic Acid, Potassium Iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-alpha Tocopherol, Vitamin D<sub>3</sub>, Phylloquinone, D-Biotin, Cyanocobalamin

**Berry** version also contains: Natural Flavor, Malic Acid, Artificial Sweetener: Sucralose, Artificial Color (Beet Red).

**Vanilla** version also contains: Artificial Sweetener: Sucralose.

**Orange** version also contains: Citric Acid, Natural Flavor, Artificial Sweetener: Sucralose, Artificial Colors (Beta Carotene, Beet Red).

**Contains:** Soy, Coconut Oil

<sup>†</sup>A source of Docosahexaenoic Acid (DHA)





## Periflex® Advance

A phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in older children and adults, including pregnant women and women of child-bearing age.

### Main Features:

- Phenylalanine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, minerals and trace elements
- Periflex Advance provides 35 g of protein equivalent and 12.6 g of fat per 100 g of powder
- Meets protein requirements in lower volume when compared to Periflex Junior Plus
- Pleasant taste, smell and texture
- Available in unflavored and orange
- Osmolality (mOsm/kg):  
Dilution Unflavored Orange  
1 to 5 830 890  
1 to 4 1060 1100
- Displacement: 0.6 mL/g

### Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code        | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|---------------------|--------------------|----------------|-------------------|------------------|
| 118305 - Unflavored | 49735-0183-05      | B4157 or B4162 | 6 x 454 g (1 lb)  | 1748             |
| 118307 - Orange     | 49735-0183-07      | B4157 or B4162 | 6 x 454 g (1 lb)  | 1675             |

**WIC<sup>†</sup>: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients                | Per 100 g |                    | Vitamins                          | Per 100 g   |                    |
|--------------------------|-----------|--------------------|-----------------------------------|-------------|--------------------|
|                          | Per 100 g | Protein Equivalent |                                   | Per 100 g   | Protein Equivalent |
| Calories (orange)        | 385 (369) | 110 (105.4)        | Vitamin A, IU (mcg RE)            | 1951 (586)  | 557.4 (167.4)      |
| Protein Equivalent, g    | 35        | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 292 (7.3)   | 83.4 (2.1)         |
| Fat, g                   | 12.6      | 3.6                | Vitamin E, IU (mg α-TE)           | 16.2 (10.9) | 4.6 (3.1)          |
| Saturated, g             | 1.4       | 0.4                | Vitamin K, mcg                    | 71.8        | 20.5               |
| Monounsaturated, g       | 7.9       | 2.3                | Thiamin, mg                       | 0.8         | 0.2                |
| Polyunsaturated, g       | 2.7       | 0.8                | Riboflavin, mg                    | 0.85        | 0.2                |
| Linoleic Acid, mg        | 2064      | 590                | Vitamin B <sub>6</sub> , mg       | 1.4         | 0.4                |
| α-Linolenic Acid, mg     | 535       | 153                | Vitamin B <sub>12</sub> , mcg     | 2.7         | 0.8                |
| Carbohydrate, g (orange) | 33 (29)   | 9.4 (8.3)          | Niacin, mg                        | 5           | 1.4                |
| <b>Amino Acids, g</b>    |           |                    | Folic Acid, mcg                   | 430         | 122.9              |
| L-Alanine                | 1.4       | 0.40               | Pantothenic Acid, mg              | 4.3         | 1.2                |
| L-Arginine               | 2.6       | 0.74               | Biotin, mcg                       | 21.4        | 6.1                |
| L-Aspartic Acid          | 2.5       | 0.71               | Vitamin C, mg                     | 54.3        | 15.5               |
| L-Cystine                | 0.96      | 0.27               | Choline, mg                       | 376         | 107.4              |
| Glycine                  | 2.5       | 0.71               | Inositol, mg                      | 70          | 20                 |
| L-Histidine              | 1.5       | 0.43               | <b>Minerals</b>                   |             |                    |
| L-Isoleucine             | 2.4       | 0.69               | Calcium, mg                       | 1035        | 296                |
| L-Leucine                | 4.0       | 1.14               | Phosphorus, mg                    | 995         | 284                |
| L-Lysine                 | 3.1       | 0.89               | Magnesium, mg                     | 268         | 76.6               |
| L-Methionine             | 0.64      | 0.18               | Iron, mg                          | 12.9        | 3.7                |
| L-Phenylalanine          | Nil Added | Nil Added          | Zinc, mg                          | 7.9         | 2.3                |
| L-Proline                | 2.8       | 0.80               | Manganese, mg                     | 1.6         | 0.5                |
| L-Serine                 | 1.8       | 0.51               | Copper, mcg                       | 720         | 206                |
| L-Threonine              | 1.9       | 0.54               | Iodine, mcg                       | 115         | 32.9               |
| L-Tryptophan             | 0.78      | 0.22               | Molybdenum, mcg                   | 32.4        | 9.3                |
| L-Tyrosine               | 3.5       | 1.00               | Chromium, mcg                     | 22.8        | 6.5                |
| L-Valine                 | 2.5       | 0.71               | Selenium, mcg                     | 50.8        | 14.5               |
| L-Carnitine              | 0.03      | 0.01               | Sodium, mg                        | 490         | 140                |
| Taurine                  | 0.12      | 0.03               | Potassium, mg                     | 613         | 175                |
| L-Glutamine              | 4.3       | 1.23               | Chloride, mg                      | 490         | 140                |

### Ingredients:

Corn Syrup Solids, High Oleic Safflower Oil, Canola Oil, L-Lysine, L-Aspartate, L-Glutamine, L-Leucine, L-Tyrosine, L-Proline, L-Arginine, L-Valine, Glycine, L-Isoleucine, Magnesium Hydrogen Phosphate, L-Threonine, and 2% or less of each of the following: L-Serine, Disodium Hydrogen Phosphate, L-Histidine, L-Alanine, Potassium Chloride, Choline Hydrogen Tartrate, L-Cystine, L-Tryptophan, Sugar, L-Methionine, Fractionated Coconut Oil, L-Lysine Acetate, CAEM (An Emulsifier), Tripotassium Citrate, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopherol Acetate, Manganese Sulfate, Niacinamide, Calcium D-Panthenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Unflavored** version also contains: Tricalcium Citrate and 2% or less of Tricalcium Phosphate.

**Orange** flavored version also contains: Artificial Flavor, Citric Acid, Tricalcium Phosphate and 2% or less of each of the following: Tricalcium Citrate, Guar Gum, Xanthan Gum, Artificial Sweetener: Sucralose, Artificial Colors (Beet Red, Beta Carotene).

**Contains:** Coconut Oil.



## Periflex® LQ

A phenylalanine-free, ready-to-drink medical food for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and women of child-bearing age.

### Main Features:

- Phenylalanine free
- Contains a balanced mixture of other amino acids, carbohydrate, vitamins and minerals
- Can easily be used along with or in place of PKU Periflex Junior Plus or Advance
- No measuring or mixing
- Great addition to any daily PKU diet plan
- Periflex LQ provides 15 g of protein equivalent and 5 g of fat per 250 mL container
- Available in orange crème and berry crème flavors
- Osmolality (at 0.64 kcal/mL):  
Orange 1080 mOsm/kg  
Berry 1030 mOsm/kg
- Free water: 84%

### Indications:

- Phenylketonuria

For details on administration, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code         | Reimbursement Code | HCPCS Code*    | Product Packaging       | Calories Per Container |
|----------------------|--------------------|----------------|-------------------------|------------------------|
| 80177 - Orange Crème | 49735-0125-51      | B4162 or B4157 | 18 x 250 mL (8.5 fl oz) | 160                    |
| 80176 - Berry Crème  | 49735-0125-24      | B4162 or B4157 | 18 x 250 mL (8.5 fl oz) | 160                    |

**WIC<sup>+</sup>: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g   |                    | Vitamins                          | Per 10 g   |                    |
|-----------------------|------------|--------------------|-----------------------------------|------------|--------------------|
|                       | Per 250 mL | Protein Equivalent |                                   | Per 250 mL | Protein Equivalent |
| Calories              | 160        | 107                | Vitamin A, IU (mcg RE)            | 833 (250)  | 555 (167)          |
| Protein Equivalent, g | 15         | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 130 (3.3)  | 87 (2.2)           |
| Fat, g                | 5          | 3.3                | Vitamin E, IU (mg α-TE)           | 7 (4.8)    | 4.7 (3.2)          |
| Saturated, g          | 0.75       | 0.5                | Vitamin K, mcg                    | 30.8       | 21                 |
| Monounsaturated, g    | 3          | 2                  | Thiamin, mg                       | 0.35       | 0.23               |
| Polyunsaturated, g    | 1          | 0.7                | Riboflavin, mg                    | 0.38       | 0.25               |
| Carbohydrate, g       | 13.8       | 9.2                | Vitamin B <sub>6</sub> , mg       | 0.6        | 0.4                |
| <b>Amino Acids, g</b> |            |                    | Vitamin B <sub>12</sub> , mcg     | 1.2        | 0.8                |
| L-Alanine             | 0.68       | 0.45               | Niacin, mg                        | 2.1        | 1.4                |
| L-Arginine            | 1.28       | 0.85               | Folic Acid, mcg                   | 184        | 123                |
| L-Aspartic Acid       | 1.2        | 0.80               | Pantothenic Acid, mg              | 1.9        | 1.3                |
| L-Cystine             | 0.48       | 0.32               | Biotin, mcg                       | 9.3        | 6.2                |
| Glycine               | 1.23       | 0.82               | Vitamin C, mg                     | 23.3       | 16                 |
| L-Histidine           | 0.73       | 0.49               | Choline, mg                       | 161        | 107                |
| L-Isoleucine          | 1.13       | 0.75               | Inositol, mg                      | 30         | 20                 |
| L-Leucine             | 1.95       | 1.30               | <b>Minerals</b>                   |            |                    |
| L-Lysine              | 1.5        | 1.00               | Calcium, mg                       | 400        | 267                |
| L-Methionine          | 0.33       | 0.22               | Phosphorus, mg                    | 288        | 192                |
| L-Phenylalanine       | Nil Added  | Nil Added          | Magnesium, mg                     | 114        | 76                 |
| L-Proline             | 1.38       | 0.92               | Iron, mg                          | 5.5        | 3.7                |
| L-Serine              | 0.85       | 0.57               | Zinc, mg                          | 3.5        | 2                  |
| L-Threonine           | 0.95       | 0.63               | Manganese, mg                     | 0.7        | 0.5                |
| L-Tryptophan          | 0.38       | 0.25               | Copper, mcg                       | 310        | 207                |
| L-Tyrosine            | 1.73       | 1.15               | Iodine, mcg                       | 49         | 33                 |
| L-Valine              | 1.25       | 0.83               | Molybdenum, mcg                   | 14         | 9                  |
| L-Carnitine           | 0.01       | 0.01               | Chromium, mcg                     | 9.8        | 7                  |
| Taurine               | 0.08       | 0.05               | Selenium, mcg                     | 21.8       | 15                 |
| L-Glutamine           | Nil Added  | Nil Added          | Sodium, mg                        | 210        | 140                |
|                       |            |                    | Potassium, mg                     | 263        | 175                |
|                       |            |                    | Chloride, mg                      | 210        | 140                |

### Ingredients:

Water, Sugar, and less than 2% of each of the following: Calcium Glycerophosphate, High Oleic Sunflower Oil, L-Lysine Acetate, Canola Oil, L-Leucine, L-Tyrosine, Artificial Flavor, L-Proline, L-Arginine, L-Valine, Glycine, L-Aspartic Acid, L-Isoleucine, Micro-Crystalline Cellulose, Citric Acid, L-Threonine, L-Serine, Magnesium Acetate, Tripotassium Citrate, L-Histidine, L-Alanine, L-Cystine, Choline Hydrogen Tartrate, N-Acetyl, L-Methionine, Sodium Chloride, L-Tryptophan, Trisodium Citrate, Soybean Oil, L-Ascorbic Acid, Diacetyl Tartaric Acid Esters of Monoglycerides, Mono- and Diglycerides, Guar Gum, Xanthan Gum, Artificial Sweetener: Acesulfame Potassium, Taurine, M-Inositol, Ferrous Sulphate, Tricalcium Phosphate, Carnitine, Zinc Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Sulphate, Calcium-D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Cholecalciferol, Folic Acid, Cyanocobalamin.

**Contains:** Soybean Oil.



## PhenylAde® GMP Drink Mix

A phenylalanine-low, powdered medical food containing a balanced mix of glycomacropeptide (GMP), essential and non-essential amino acids, carbohydrates (including fiber), fat (including docosahexaenoic acid (DHA)), vitamins, minerals and trace elements.

### Main Features:

- Low in Phenylalanine
- Suitable for individuals with PKU over 1 year of age
- Complete with essential vitamins and minerals
- Contains a source of DHA
- 1.5 grams of soluble fiber per each 10 g PE serving
- PhenylAde GMP Drink Mix provides 30 g of protein equivalent and 12 g of fat per 100 g of powder
- Available in vanilla and original flavor
- Available in cans and pouches
- Osmolality (at 0.73 kcal/mL): 460 mOsm/kg  
Based on dilution of 33.3 g powder (1 scoop or 1 pouch) to 5 fl oz (150 mL) water
- Displacement: 0.9 mL/g

### Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code      | Reimbursement Code | HCPCS Code*    | Product Packaging    | Calories Per Can/Pouch |
|-------------------|--------------------|----------------|----------------------|------------------------|
| <b>CANS</b>       |                    |                |                      |                        |
| 6832 - Vanilla    | 49735-0168-32      | B4157 or B4162 | 4 x 400 g (14.1 oz)  | 1584                   |
| <b>POUCHES</b>    |                    |                |                      |                        |
| 68324 - Vanilla   | 49735-0183-04      | B4157 or B4162 | 16 x 33.3 g (1.2 oz) | 132                    |
| 114116 - Original | 49735-0141-16      | B4157 or B4162 | 16 x 33.3 g (1.2 oz) | 132                    |

**WIC<sup>+</sup>: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\*S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10g Protein Equivalent |                 | Vitamins                          | Per 10g Protein Equivalent |                 |
|-----------------------|----------------------------|-----------------|-----------------------------------|----------------------------|-----------------|
|                       | Per 100 g                  | (1 scoop/pouch) |                                   | Per 100 g                  | (1 scoop/pouch) |
| Calories              | 396                        | 132             | Vitamin A, IU (mcg RE)            | 2040 (765)                 | 680 (255)       |
| Protein Equivalent, g | 30.0                       | 10.0            | Vitamin D <sub>3</sub> , IU (mcg) | 900 (22.5)                 | 300 (7.5)       |
| Phenylalanine, mg     | 46.0                       | 15.3            | Vitamin E, IU (mg α-TE)           | 22.8 (15.3)                | 7.6 (5.1)       |
| Fat, g                | 12.0                       | 4.0             | Vitamin K, mcg                    | 72                         | 24              |
| Saturated, g          | 2.8                        | 0.93            | Thiamin, mg                       | 1.8                        | 0.6             |
| Monounsaturated, g    | 6.3                        | 2.1             | Riboflavin, mg                    | 1.8                        | 0.6             |
| Polyunsaturated, g    | 2.5                        | 0.84            | Vitamin B <sub>6</sub> , mg       | 1.7                        | 0.56            |
| DHA, mg               | 155                        | 51.6            | Vitamin B <sub>12</sub> , mcg     | 3.6                        | 1.2             |
| Carbohydrate, g       | 42.0                       | 14.0            | Niacin, mg                        | 15.0                       | 5.0             |
| Fiber, g              | 4.5                        | 1.5             | Folic Acid, mcg                   | 360                        | 120             |
| <b>Amino Acids, g</b> |                            |                 | Pantothenic Acid, mg              | 4.8                        | 1.6             |
| L-Alanine             | 1.3                        | 0.44            | Biotin, mcg                       | 36                         | 12              |
| L-Arginine            | 1.4                        | 0.47            | Vitamin C, mg                     | 72                         | 24              |
| L-Aspartic acid       | 1.9                        | 0.63            | Choline, mg                       | 300                        | 100             |
| L-Cystine             | 0.93                       | 0.31            | Inositol, mg                      | 60                         | 20              |
| L-Glutamic acid       | 4.1                        | 1.4             | <b>Minerals</b>                   |                            |                 |
| L-Glycine             | 2.2                        | 0.75            | Calcium, mg                       | 1050                       | 350             |
| L-Histidine           | 1.5                        | 0.49            | Phosphorus, mg                    | 945                        | 315             |
| L-Isoleucine          | 2.3                        | 0.76            | Magnesium, mg                     | 252                        | 84              |
| L-Leucine             | 2.3                        | 0.78            | Iron, mg                          | 13.2                       | 4.4             |
| L-Lysine              | 1.3                        | 0.44            | Zinc, mg                          | 10.2                       | 3.4             |
| L-Methionine          | 0.44                       | 0.15            | Manganese, mg                     | 1.6                        | 0.52            |
| L-Phenylalanine       | 0.05                       | 0.02            | Copper, mcg                       | 1200                       | 400             |
| L-Proline             | 2.6                        | 0.86            | Iodine, mcg                       | 135                        | 45              |
| L-Serine              | 1.6                        | 0.54            | Molybdenum, mcg                   | 54                         | 18              |
| L-Threonine           | 3.7                        | 1.2             | Chromium, mcg                     | 36                         | 12              |
| L-Tryptophan          | 0.72                       | 0.24            | Selenium, mcg                     | 48                         | 16              |
| L-Tyrosine            | 3.7                        | 1.2             | Sodium, mg                        | 465                        | 155             |
| L-Valine              | 1.8                        | 0.61            | Potassium, mg                     | 1047                       | 349             |
| L-Carnitine           | 0.04                       | 0.01            | Chloride, mg                      | 569                        | 190             |
| Taurine               | 0.09                       | 0.03            |                                   |                            |                 |

### Ingredients:

Whey Protein Concentrate\* (FROM MILK), Refined Vegetable Oils (Canola, Safflower, Coconut and Soybean), Modified Corn Starch, Dextrin, Maltodextrin, L-Tyrosine, Tricalcium Phosphate. Contains 2% or less of the following: L-Glycine, Magnesium Phosphate, L-Leucine, L-Histidine, L-Arginine, Potassium Chloride, L-Cystine, Choline Bitartrate, Dicalcium Phosphate, L-Tryptophan, *C. Cohnii Oil*\*\*<sup>†</sup>, Glucose Syrup Solids, Potassium Citrate, Ascorbyl Palmitate, Mixed Tocopherols, Silicon Dioxide, Rosemary Extract, Sodium Chloride, Ascorbic Acid, Taurine, Inositol, Mannitol, Vitamin E Acetate, Ferrous Sulfate, L-Carnitine, Glycerol Mono and Distearate, High Oleic Sunflower Oil, Sodium Polyphosphate, Sunflower Lecithin, Niacinamide, Zinc Oxide, Sodium Ascorbate, Vitamin D<sub>3</sub>, Vitamin A Palmitate, Copper Gluconate, Manganese Sulfate, D-Calcium Pantothenate, D-Biotin, Beta-Carotene, Thiamin Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Potassium Iodide, Vitamin K<sub>1</sub>, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate.

**Original** version also contains: Corn Syrup Solids and 2% or less of Sugar, Natural Flavors.

**Vanilla** version also contains: Sugar, Natural and Artificial Flavors.

**Contains:** Milk, Soybean Oil, Coconut Oil.

\*Contains 15.3 mg of phenylalanine/10 g protein equivalent

\*\*A source of Docosahexaenoic Acid (DHA)



## PhenylAde® GMP READY

A ready-to-drink medical food, low in phenylalanine containing a mix of glycomacropeptide (GMP), essential and non-essential amino acids, carbohydrates, fat (including docosahexaenoic acid (DHA) and eicosapentaenoic acid (EPA)), vitamins, minerals and trace elements.

### Main Features:

- Low in Phenylalanine
- Suitable for individuals with PKU over 1 year of age
- Complete with essential vitamins and minerals
- Contains a source of DHA & EPA
- No measuring or mixing
- PhenylAde GMP READY provides 10 g of protein equivalent and 4 g of fat per 250 mL container
- Available in Plain (neutral) flavor
- Osmolality (at 0.73 kcal/mL): 460 mOsm/kg
- Free water: 93%

### Indications:

- Phenylketonuria

For details on administration, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging       | Calories Per Container |
|--------------|--------------------|----------------|-------------------------|------------------------|
| 139686       | 49735-0196-86      | B4157 or B4162 | 18 x 8.5 fl oz (250 mL) | 110                    |

**WIC<sup>†</sup>:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 8.5 fl oz / 250 mL | Vitamins                           | Per 8.5 fl oz / 250 mL |
|-----------------------|------------------------|------------------------------------|------------------------|
| Calories              | 110                    | Vitamin A, IU (mcg RE)             | 665 (200)              |
| Protein Equivalent, g | 10                     | Vitamin D <sub>3</sub> , IU (mcg)  | 250 (6.3)              |
| Phenylalanine, mg     | 18                     | Vitamin E, IU (mg α-TE)            | 5 (3.3)                |
| Fat, g                | 4                      | Vitamin K, mcg                     | 17.5                   |
| Saturated, g          | 0.40                   | Thiamin, mg                        | 0.40                   |
| Trans, g              | 0                      | Riboflavin, mg                     | 0.40                   |
| Monounsaturated, g    | 2.4                    | Vitamin B <sub>6</sub> , mg        | 0.35                   |
| Polyunsaturated, g    | 1.2                    | Vitamin B <sub>12</sub> , mcg      | 0.70                   |
| DHA, mg               | 60                     | Niacin, mg                         | 3.5                    |
| EPA, mg               | 15                     | Folic Acid, mcg                    | 50                     |
| Carbohydrate, g       | 8.5                    | Pantothenic Acid, mg               | 1.3                    |
| Fiber, g              | 0.93                   | Biotin, mcg                        | 7.8                    |
| Sugars, g             | 7.5                    | Vitamin C, mg                      | 15.5                   |
| <b>Amino Acids, g</b> |                        | Choline, mg                        | 93.8                   |
| L-Alanine             | 0.40                   | Inositol, mg                       | 20.3                   |
| L-Arginine            | 0.49                   | <b>Minerals and Trace Elements</b> |                        |
| L-Aspartic acid       | 0.59                   | Calcium, mg                        | 325                    |
| L-Cystine             | 0.29                   | Phosphorus, mg                     | 275                    |
| L-Glutamic acid       | 1.3                    | Magnesium, mg                      | 58.5                   |
| L-Glycine             | 0.07                   | Iron, mg                           | 3                      |
| L-Histidine           | 0.40                   | Zinc, mg                           | 2.2                    |
| L-Isoleucine          | 0.72                   | Manganese, mg                      | 0.23                   |
| L-Leucine             | 1.5                    | Copper, mcg                        | 250                    |
| L-Lysine              | 0.43                   | Iodine, mcg                        | 36.5                   |
| L-Methionine          | 0.13                   | Molybdenum, mcg                    | 12.5                   |
| L-Phenylalanine       | 0.02                   | Chromium, mcg                      | 7.5                    |
| L-Proline             | 0.79                   | Selenium, mcg                      | 12.5                   |
| L-Serine              | 0.51                   | Sodium, mg                         | 146                    |
| L-Threonine           | 1.1                    | Potassium, mg                      | 185                    |
| L-Tryptophan          | 0.24                   | Chloride, mg                       | 100                    |
| L-Tyrosine            | 1.0                    |                                    |                        |
| L-Valine              | 0.87                   |                                    |                        |
| L-Carnitine           | 0.01                   |                                    |                        |
| Taurine               | 0.03                   |                                    |                        |

### Ingredients:

Water, Whey Protein Concentrate\* (Milk), Sugar, Refined Vegetable Oils (Canola Oil, High Oleic Sunflower Oil), L-Leucine, Calcium Glycerophosphate, L-Tyrosine, Maltodextrin, Cellulose Gum, Calcium Phosphate Dibasic, L-Arginine, Magnesium Acetate, L-Histidine, L-Valine, L-Cystine, Choline Bitartrate, Artificial Flavor, L-Tryptophan, Potassium Chloride, Calcium Lactate, Microcrystalline Cellulose, *C. Cohnii* Oil\*\*, Citric Acid Esters Of Mono- And Diglycerides (CITREM), Sodium Chloride, L-Ascorbic Acid, *Schizochytrium Sp.* Oil†, Taurine, M-Inositol, Sucralose††, Ferrous Lactate, L-Carnitine, Zinc Sulfate, DI-Alpha Tocopheryl Acetate, Niacinamide, Copper Gluconate, Calcium D-Pantothenate, Manganese Sulfate, Thiamin Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Palmitate, Mixed Tocopherols, Sunflower Lecithin, Potassium Iodide, Folic Acid, Ascorbyl Palmitate, Chromium Chloride, Sodium Molybdate, Sodium Selenite, Phylloquinone, D-Biotin, Cholecalciferol, Cyanocobalamin.

**Contains:** Milk.

\* Contains 18 mg of phenylalanine per 10 g protein equivalent

\*\* A source of docosahexaenoic acid (DHA)

† A source of docosahexaenoic acid (DHA) and eicosapentaenoic acid (EPA)

†† Contains 22.5 mg of sucralose per 250 mL of product



## PhenylAde® GMP Mix-In

A powdered medical food, low in phenylalanine containing a balanced mix of glycomacropeptide (GMP), essential and non-essential amino acids, some carbohydrates and fat.

### Main Features:

- Low in Phenylalanine
- Suitable for individuals with PKU over 1 year of age
- Provides 80 g protein equivalent per 100 g of powder
- Mixes easily with water, flavored drinks or other PKU formula
- Available in cans and pouches
- Displacement: 0.4 mL/g

### Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code   | Reimbursement Code | HCPCS Code* | Product Packaging     | Calories Per Can/Pouch |
|----------------|--------------------|-------------|-----------------------|------------------------|
| <b>CAN</b>     |                    |             |                       |                        |
| 135426         | 49735-0154-26      | B4155       | 24 x 200 g (28.2 oz)  | 668                    |
| <b>POUCHES</b> |                    |             |                       |                        |
| 116130         | 49735-0111-61      | B4155       | 20 x 12.5 g (0.44 oz) | 42                     |

**WIC<sup>†</sup>:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 100 g | Per 10 g Protein Equivalent (1 scoop/pouch) |
|-----------------------|-----------|---|
| Calories              | 334       | 42  |
| Protein Equivalent, g | 80        | 10  |
| Phenylalanine, mg     | 46.0      | 15.3  |
| Fat, g                | <0.5      | <0.5  |
| Carbohydrate, g       | 2.7       | <0.5  |
| <b>Amino Acids, g</b> |           |   |
| L-Alanine, g          | 3.5       | 0.44  |
| L-Arginine, g         | 3.8       | 0.47  |
| L-Aspartic acid, g    | 5         | 0.63  |
| L-Cystine, g          | 2.5       | 0.31  |
| L-Glutamic acid, g    | 11        | 1.4   |
| Glycine, g            | 5.9       | 0.75  |
| L-Histidine, g        | 3.9       | 0.49  |
| L-Isoleucine, g       | 6         | 0.76  |
| L-Leucine, g          | 6.2       | 0.78  |
| L-Lysine, g           | 3.5       | 0.44  |
| L-Methionine, g       | 1.2       | 0.15  |
| L-Phenylalanine, g    | 0.12      | 0.02  |
| L-Proline, g          | 6.8       | 0.86  |
| L-Serine, g           | 4.3       | 0.54  |
| L-Threonine, g        | 9.7       | 1.2   |
| L-Tryptophan, g       | 1.9       | 0.24  |
| L-Tyrosine, g         | 9.8       | 1.2   |
| L-Valine, g           | 4.8       | 0.61  |
| L-Carnitine, g        | 0.08      | 0.01  |
| Taurine, g            | 0.24      | 0.03  |

| Minerals       | Per 100 g | Per 10 g Protein Equivalent (1 scoop/pouch) |
|----------------|-----------|---|
| Calcium, mg    | 32        | 4   |
| Phosphorus, mg | 320       | 40  |
| Potassium, mg  | 1160      | 145   |
| Sodium, mg     | 960       | 120   |

### Ingredients:

Whey Protein Concentrate\* (FROM MILK), L-Tyrosine, Glycine, L-Leucine, L-Histidine, L-Arginine, Corn Syrup Solids, L-Cystine. Contains 2 % or less of the following: L-Tryptophan, Refined Vegetable Oils (Canola, Safflower, Coconut and Soybean), Silicon Dioxide, Taurine, Modified Corn Starch, Maltodextrin, L-Carnitine, Ascorbyl Palmitate, Rosemary Extract, Mixed Tocopherols, Tricalcium Phosphate.

\*Contains 15.3 mg of phenylalanine/10 g protein equivalent

**Contains:** Milk, Soybean Oil, Coconut Oil.

**Note:** Must be combined with an appropriate vitamin & mineral supplement when taken as the sole source of PKU Medical Food.



## PhenylAde® Essential Drink Mix

A phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and women of child-bearing age.

### Main Features:

- Phenylalanine free
- Complete with essential vitamins and minerals
- 1.5 grams of soluble fiber per serving
- PhenylAde Essential Drink Mix provides 25 g of protein equivalent and 13 g of fat per 100 g of powder
- Available in chocolate, vanilla, orange creme, strawberry, and unflavored
- Available in cans and pouches
- Osmolality (at 0.65 kcal/mL): 800 mOsm/kg  
Based on dilution of 40 g powder (1 scoop or 1 pouch) to 7 fl oz (210 mL) water
- Displacement: 0.75 mL/g

### Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code         | Reimbursement Code | HCPCS Code*    | Product Packaging  | Calories Per Can/Pouch |
|----------------------|--------------------|----------------|--------------------|------------------------|
| <b>CANS</b>          |                    |                |                    |                        |
| 9501 - Chocolate     | 00847-0950-12      | B4157 or B4162 | 4 x 454 g (1 lb)   | 1784                   |
| 9502 - Vanilla       | 00847-0950-22      | B4157 or B4162 | 4 x 454 g (1 lb)   | 1784                   |
| 9503 - Orange Creme  | 00847-0950-32      | B4157 or B4162 | 4 x 454 g (1 lb)   | 1784                   |
| 9504 - Strawberry    | 00847-0950-42      | B4157 or B4162 | 4 x 454 g (1 lb)   | 1784                   |
| 9508 - Unflavored    | 00847-0950-82      | B4157 or B4162 | 4 x 454 g (1 lb)   | 1784                   |
| <b>POUCHES</b>       |                    |                |                    |                        |
| 95014 - Chocolate    | 00847-0950-14      | B4157 or B4162 | 16 x 40 g (1.4 oz) | 157                    |
| 95024 - Vanilla      | 00847-0950-24      | B4157 or B4162 | 16 x 40 g (1.4 oz) | 157                    |
| 95034 - Orange Creme | 00847-0950-34      | B4157 or B4162 | 16 x 40 g (1.4 oz) | 157                    |
| 95044 - Strawberry   | 00847-0950-44      | B4157 or B4162 | 16 x 40 g (1.4 oz) | 157                    |
| 95084 - Unflavored   | 00847-0950-84      | B4157 or B4162 | 16 x 40 g (1.4 oz) | 157                    |

**WIC†: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g Protein Equivalent (1 scoop/pouch) |           | Vitamins                                      | Per 10 g Protein Equivalent (1 scoop/pouch) |           |
|-----------------------|---|-----------|---|---|-----------|
|                       | Per 100 g                                   | Per 100 g |   | Per 100 g                                   | Per 100 g |
| Calories              | 393   | 157       | Vitamin A, IU (mcg RE) (25% as beta-carotene) | 1700 (637)                                  | 680 (255) |
| Protein Equivalent, g | 25  | 10        | Vitamin D <sub>3</sub> , IU (mcg)             | 600 (15)                                    | 240 (6)   |
| Fat, g                | 13  | 5         | Vitamin E, IU (mg α-TE)                       | 19 (12.7)                                   | 7.6 (5.1) |
| Saturated, g          | 3   | 1.2       | Vitamin K, mcg                                | 61  | 24        |
| Monounsaturated, g    | 6.8   | 2.7       | Thiamin, mg                                   | 1.5   | 0.6       |
| Polyunsaturated, g    | 2.8   | 1.1       | Riboflavin, mg                                | 1.5   | 0.6       |
| Linoleic Acid, mg     | 1936  | 774       | Vitamin B <sub>6</sub> , mg                   | 1.4   | 0.56      |
| α-Linolenic Acid, mg  | 725   | 290       | Vitamin B <sub>12</sub> , mcg                 | 3.0   | 1.2       |
| Carbohydrate, g       | 46  | 18        | Niacin, mg                                    | 17  | 6.8       |
| Fiber, g              | 3.9   | 1.5       | Folic Acid, mcg                               | 300   | 120       |
| <b>Amino Acids, g</b> |   |           | Pantothenic Acid, mg                          | 4   | 1.6       |
| L-Alanine             | 2.32  | 0.93      | Biotin, mcg                                   | 30  | 12        |
| L-Arginine            | 1.97  | 0.79      | Vitamin C, mg                                 | 60  | 24        |
| L-Asparagine          | 3.49  | 1.40      | Choline, mg                                   | 210   | 84        |
| L-Cystine             | 0.34  | 0.14      | Inositol, mg                                  | 50  | 20        |
| L-Glutamine           | 3.89  | 1.56      | <b>Minerals</b>                               |   |           |
| Glycine               | 1.52  | 0.61      | Calcium, mg                                   | 822   | 329       |
| L-Histidine           | 0.63  | 0.25      | Phosphorus, mg                                | 788   | 315       |
| L-Isoleucine          | 1.04  | 0.42      | Magnesium, mg                                 | 210   | 84        |
| L-Leucine             | 2.24  | 0.90      | Iron, mg                                      | 11  | 4.4       |
| L-Lysine              | 1.82  | 0.73      | Zinc, mg                                      | 10  | 4         |
| L-Methionine          | 0.61  | 0.24      | Manganese, mg                                 | 1.3   | 0.52      |
| L-Phenylalanine       | Nil Added                                   | Nil Added | Copper, mcg                                   | 1000  | 400       |
| L-Proline             | 1.52  | 0.61      | Iodine, mcg                                   | 100   | 40        |
| L-Serine              | 2.24  | 0.90      | Molybdenum, mcg                               | 45  | 18        |
| L-Threonine           | 1.15  | 0.46      | Chromium, mcg                                 | 30  | 12        |
| L-Tryptophan          | 0.58  | 0.23      | Selenium, mcg                                 | 40  | 16        |
| L-Tyrosine            | 2.69  | 1.08      | Sodium, mg                                    | 388   | 155       |
| L-Valine              | 1.7   | 0.67      | Potassium, mg                                 | 872   | 349       |
| L-Carnitine           | 0.04  | 0.01      | Chloride, mg                                  | 475   | 190       |
| Taurine               | 0.08  | 0.03      |   |   |           |

### Ingredients:

Corn Syrup Solids, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Dextrin, L-Asparagine Monohydrate, L-Glutamine, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine. Contains 2% or less of the following: L-Arginine, Monocalcium Phosphate, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, Coconut Oil, Soybean Oil, L-Threonine, L-Isoleucine, Potassium Chloride, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Flaxseed Oil, Magnesium Oxide, L-Cystine, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Silicon dioxide, Tricalcium Phosphate, Sodium Chloride, Taurine, Ascorbic Acid, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Niacinamide, Calcium Phosphate, Zinc Oxide, Copper Gluconate, Vitamin K<sub>1</sub>, Vitamin D<sub>3</sub>, Vitamin A Palmitate, D-Calcium Pantothenate, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-carotene, Pyridoxine Hydrochloride, Riboflavin, Thiamin Mononitrate, Potassium Iodide, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate.

**Contains:** Coconut Oil, Soybean Oil.

**Chocolate** flavored version also contains: Sugar, Natural and Artificial Flavor, and less than 2% of the following: FD&C Red #40, FD&C Yellow #5, FD&C Blue #2.

**Vanilla** flavored version also contains: Sugar, Natural and Artificial Flavor, and less than 2% of the following: Titanium Dioxide.

**Orange Creme** flavored version also contains: Sugar, Natural and Artificial Flavor, and less than 2% of the following: FD&C Yellow #6.

**Strawberry** flavored version also contains: Sugar, Natural and Artificial Flavor, and less than 2% of the following: FD&C Red #40, FD&C Blue #1.



## PhenylAde® 40 Drink Mix

A phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and women of child-bearing age.

### Main Features:

- Phenylalanine free
- Complete with essential vitamins and minerals
- Only 0.5 gram of fat and 83 calories per serving
- PhenylAde40 Drink Mix provides 40 g of protein equivalent and 2 g of fat per 100 g of powder
- Available in citrus and unflavored single serve pouches
- Osmolality (at 0.63 kcal/mL): 1110 mOsm/kg  
Based on dilution of 25 g powder (1 pouch) to 4 fl oz (120 mL) water
- Displacement: 0.48 mL/g

### Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code       | Reimbursement Code | HCPCS Code*    | Product Packaging   | Calories Per Pouch |
|--------------------|--------------------|----------------|---------------------|--------------------|
| 95404 - Unflavored | 00847-0954-04      | B4157 or B4162 | 20 x 25 g (0.88 oz) | 83                 |
| 95414 - Citrus     | 00847-0954-14      | B4157 or B4162 | 20 x 25 g (0.88 oz) | 83                 |

**WIC†: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients                         | Per 100 g   | Per 10 g Protein Equivalent (1 pouch) | Per 10 g Protein Equivalent (1 pouch) |                                       |
|-----------------------------------|-------------|---------------------------------------|---------------------------------------|---------------------------------------|
|                                   |             |                                       | Per 100 g                             | Per 10 g Protein Equivalent (1 pouch) |
| Calories                          | 330         | 83                                    |                                       |                                       |
| Protein Equivalent, g             | 40          | 10                                    |                                       |                                       |
| Fat, g                            | 2           | 0.5                                   |                                       |                                       |
| Saturated, g                      | 0.48        | 0.12                                  |                                       |                                       |
| Monounsaturated, g                | 1.1         | 0.28                                  |                                       |                                       |
| Polyunsaturated, g                | 0.40        | 0.10                                  |                                       |                                       |
| Carbohydrate, g                   | 38          | 9.5                                   |                                       |                                       |
| <b>Amino Acids, g</b>             |             |                                       |                                       |                                       |
| L-Alanine                         | 3.85        | 0.96                                  |                                       |                                       |
| L-Arginine                        | 3.27        | 0.82                                  |                                       |                                       |
| L-Asparagine                      | 5.04        | 1.26                                  |                                       |                                       |
| L-Cystine                         | 0.55        | 0.14                                  |                                       |                                       |
| L-Glutamine                       | 6.34        | 1.59                                  |                                       |                                       |
| Glycine                           | 2.47        | 0.62                                  |                                       |                                       |
| L-Histidine                       | 1.02        | 0.26                                  |                                       |                                       |
| L-Isoleucine                      | 1.64        | 0.41                                  |                                       |                                       |
| L-Leucine                         | 3.64        | 0.91                                  |                                       |                                       |
| L-Lysine                          | 2.98        | 0.75                                  |                                       |                                       |
| L-Methionine                      | 1.08        | 0.27                                  |                                       |                                       |
| L-Phenylalanine                   | Nil Added   | Nil Added                             |                                       |                                       |
| L-Proline                         | 2.47        | 0.62                                  |                                       |                                       |
| L-Serine                          | 4.08        | 1.02                                  |                                       |                                       |
| L-Threonine                       | 1.92        | 0.48                                  |                                       |                                       |
| L-Tryptophan                      | 0.61        | 0.15                                  |                                       |                                       |
| L-Tyrosine                        | 3.78        | 0.95                                  |                                       |                                       |
| L-Valine                          | 2.74        | 0.69                                  |                                       |                                       |
| L-Carnitine                       | 0.06        | 0.01                                  |                                       |                                       |
| Taurine                           | 0.12        | 0.03                                  |                                       |                                       |
| <b>Vitamins</b>                   |             |                                       |                                       |                                       |
| Vitamin A, IU (mcg RE)            | 1557 (584)  | 389 (146)                             |                                       |                                       |
| (25% as beta-carotene)            |             |                                       |                                       |                                       |
| Vitamin D <sub>3</sub> , IU (mcg) | 347 (8.7)   | 87 (2.2)                              |                                       |                                       |
| Vitamin E, IU (mg α-TE)           | 15.4 (10.3) | 3.9 (2.6)                             |                                       |                                       |
| Vitamin K, mcg                    | 60          | 15                                    |                                       |                                       |
| Thiamin, mg                       | 1.4         | 0.35                                  |                                       |                                       |
| Riboflavin, mg                    | 1.3         | 0.32                                  |                                       |                                       |
| Vitamin B <sub>6</sub> , mg       | 1.5         | 0.38                                  |                                       |                                       |
| Vitamin B <sub>12</sub> , mcg     | 2.8         | 0.7                                   |                                       |                                       |
| Niacin, mg                        | 16.4        | 4.1                                   |                                       |                                       |
| Folic Acid, mcg                   | 468         | 117                                   |                                       |                                       |
| Pantothenic Acid, mg              | 5.8         | 1.5                                   |                                       |                                       |
| Biotin, mcg                       | 35          | 8.8                                   |                                       |                                       |
| Vitamin C, mg                     | 75          | 18.9                                  |                                       |                                       |
| Choline, mg                       | 284         | 71                                    |                                       |                                       |
| Inositol, mg                      | 86          | 22                                    |                                       |                                       |
| <b>Minerals</b>                   |             |                                       |                                       |                                       |
| Calcium, mg                       | 894         | 224                                   |                                       |                                       |
| Phosphorus, mg                    | 809         | 202                                   |                                       |                                       |
| Magnesium, mg                     | 209         | 52                                    |                                       |                                       |
| Iron, mg                          | 12          | 3                                     |                                       |                                       |
| Zinc, mg                          | 8           | 2                                     |                                       |                                       |
| Manganese, mg                     | 1.8         | 0.45                                  |                                       |                                       |
| Copper, mcg                       | 869         | 217                                   |                                       |                                       |
| Iodine, mcg                       | 133         | 33                                    |                                       |                                       |
| Molybdenum, mcg                   | 40          | 10                                    |                                       |                                       |
| Chromium, mcg                     | 27          | 6.7                                   |                                       |                                       |
| Selenium, mcg                     | 56          | 13.9                                  |                                       |                                       |
| Sodium, mg                        | 424         | 106                                   |                                       |                                       |
| Potassium, mg                     | 776         | 194                                   |                                       |                                       |
| Chloride, mg                      | 1322        | 331                                   |                                       |                                       |

### Ingredients:

Corn Syrup Solids, Sugar, L-Glutamine, L-Asparagine Monohydrate, L-Serine, L-Alanine, L-Tyrosine, L-Lysine Monohydrochloride, L-Leucine, L-Arginine, L-Valine, Citric Acid, Tricalcium Phosphate, Glycine, L-Proline, Natural Flavor. Contains 2% or less of the following: L-Threonine, L-Isoleucine, Magnesium Phosphate, L-Methionine, Sodium Citrate, L-Histidine, Dipotassium Phosphate, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Choline Bitartrate, Potassium Chloride, L-Tryptophan, L-Cystine, Sodium Chloride, Coconut Oil, Soybean Oil, Taurine, Silicon Dioxide, Inositol, Ascorbic Acid, L-Carnitine, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Ferric Orthophosphate, Vitamin E Acetate, Zinc Sulfate, Niacinamide, Sucralose, D-Calcium Pantothenate, Vitamin K<sub>1</sub>, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D<sub>3</sub>, Beta-carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamin Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate.

**Contains:** Coconut Oil, Soybean Oil.

**Citrus** flavored version also contains: less than 2% of the following: FD&C Yellow #5.





## PhenylAde® 60 Drink Mix

A phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and women of child-bearing age.

### Main Features:

- Phenylalanine free
- Complete with essential vitamins and minerals
- Only 49 calories per serving
- PhenylAde60 Drink Mix provides 60 g of protein equivalent and 1 g of fat per 100 g of powder
- Available in vanilla and unflavored
- Available in cans or single serve pouches
- Osmolality (at 0.49 kcal/mL): 1256 mOsm/kg  
Based on dilution of 16.7 g powder (1 scoop or 1 pouch) to 3 fl oz (90 mL) water
- Displacement: 0.54 mL/g

### Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code       | Reimbursement Code | HCPCS Code*    | Product Packaging     | Calories Per Can/Pouch |
|--------------------|--------------------|----------------|-----------------------|------------------------|
| <b>CANS</b>        |                    |                |                       |                        |
| 9560 - Unflavored  | 00847-0956-02      | B4157 or B4162 | 4 x 454 g (1 lb)      | 1335                   |
| 9562 - Vanilla     | 00847-0956-22      | B4157 or B4162 | 4 x 454 g (1 lb)      | 1335                   |
| <b>POUCHES</b>     |                    |                |                       |                        |
| 95604 - Unflavored | 00847-0956-04      | B4157 or B4162 | 30 x 16.7 g (0.59 oz) | 49                     |
| 95624 - Vanilla    | 00847-0956-24      | B4157 or B4162 | 30 x 16.7 g (0.59 oz) | 49                     |

**WIC†: Contact your state WIC office to determine availability.** For more reimbursement information see Resources.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients                         | Per 10 g Protein Equivalent (1scoop/pouch) |           | Per 10 g Protein Equivalent (1scoop/pouch) |           |
|-----------------------------------|--|-----------|--|-----------|
|                                   | Per 100 g                                  | Per 100 g | Per 100 g                                  | Per 100 g |
| Calories                          | 294  | 49        |  |           |
| Protein Equivalent, g             | 60   | 10        |  |           |
| Fat, g                            | 1  | 0.17      |  |           |
| Saturated, g                      | <0.5                                       | <0.1      |  |           |
| Monounsaturated, g                | <0.5                                       | <0.1      |  |           |
| Polyunsaturated, g                | <0.5                                       | <0.1      |  |           |
| Carbohydrate, g                   | 11   | 2         |  |           |
| <b>Amino Acids, g</b>             |  |           |  |           |
| L-Alanine                         | 5.56                                       | 0.93      |  |           |
| L-Arginine                        | 4.72                                       | 0.79      |  |           |
| L-Asparagine                      | 8.36                                       | 1.39      |  |           |
| L-Cystine                         | 0.81                                       | 0.13      |  |           |
| L-Glutamine                       | 9.31                                       | 1.55      |  |           |
| Glycine                           | 3.63                                       | 0.61      |  |           |
| L-Histidine                       | 1.51                                       | 0.25      |  |           |
| L-Isoleucine                      | 2.49                                       | 0.42      |  |           |
| L-Leucine                         | 5.37                                       | 0.90      |  |           |
| L-Lysine                          | 4.36                                       | 0.73      |  |           |
| L-Methionine                      | 1.45                                       | 0.24      |  |           |
| L-Phenylalanine                   | Nil Added                                  | Nil Added |  |           |
| L-Proline                         | 3.63                                       | 0.61      |  |           |
| L-Serine                          | 5.37                                       | 0.90      |  |           |
| L-Threonine                       | 2.76                                       | 0.46      |  |           |
| L-Tryptophan                      | 1.38                                       | 0.23      |  |           |
| L-Tyrosine                        | 6.45                                       | 1.08      |  |           |
| L-Valine                          | 4.01                                       | 0.67      |  |           |
| L-Carnitine                       | 0.09                                       | 0.01      |  |           |
| Taurine                           | 0.18                                       | 0.03      |  |           |
| <b>Vitamins</b>                   |  |           |  |           |
| Vitamin A, IU (mcg RE)            | 2331 (874)                                 | 389 (146) |  |           |
| (25% as beta-carotene)            |  |           |  |           |
| Vitamin D <sub>3</sub> , IU (mcg) | 520 (13)                                   | 87 (2.2)  |  |           |
| Vitamin E, IU (mg α-TE)           | 23 (15.4)                                  | 3.8 (2.6) |  |           |
| Vitamin K, mcg                    | 90   | 15        |  |           |
| Thiamin, mg                       | 2.1  | 0.35      |  |           |
| Riboflavin, mg                    | 1.9  | 0.32      |  |           |
| Vitamin B <sub>6</sub> , mg       | 2.3  | 0.38      |  |           |
| Vitamin B <sub>12</sub> , mcg     | 4.2  | 0.7       |  |           |
| Niacin, mg                        | 25   | 4.1       |  |           |
| Folic Acid, mcg                   | 700  | 117       |  |           |
| Pantothenic Acid, mg              | 8.7  | 1.5       |  |           |
| Biotin, mcg                       | 53   | 8.8       |  |           |
| Vitamin C, mg                     | 113  | 19        |  |           |
| Choline, mg                       | 425  | 71        |  |           |
| Inositol, mg                      | 129  | 22        |  |           |
| <b>Minerals</b>                   |  |           |  |           |
| Calcium, mg                       | 1300                                       | 217       |  |           |
| Phosphorus, mg                    | 1194                                       | 199       |  |           |
| Magnesium, mg                     | 310  | 52        |  |           |
| Iron, mg                          | 18   | 3         |  |           |
| Zinc, mg                          | 12   | 2         |  |           |
| Manganese, mg                     | 2.7  | 0.45      |  |           |
| Copper, mcg                       | 1300                                       | 217       |  |           |
| Iodine, mcg                       | 180  | 30        |  |           |
| Molybdenum, mcg                   | 60   | 10        |  |           |
| Chromium, mcg                     | 40   | 6.7       |  |           |
| Selenium, mcg                     | 83   | 14        |  |           |
| Sodium, mg                        | 600  | 100       |  |           |
| Potassium, mg                     | 1162                                       | 194       |  |           |
| Chloride, mg                      | 900  | 150       |  |           |

### Ingredients:

**Unflavored:** L-Asparagine Monohydrate, L-Glutamine, Sugar, L-Tyrosine, L-Lysine, Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, L-Valine, Tricalcium Phosphate, Glycine, L-Proline, L-Threonine, Corn Syrup Solids, L-Isoleucine, Magnesium Phosphate. Contains 2% or less of the following: Sodium Citrate, L-Histidine, L-Methionine, L-Tryptophan, Dipotassium Phosphate, Potassium Chloride, Choline Bitartrate, Soy Lecithin, L-Cystine, Sodium Chloride, Silicon Dioxide, Modified Corn Starch, Taurine, Canola Oil, Maltodextrin, Safflower Oil, Ascorbic Acid, Inositol, L-Carnitine, Ferric Orthophosphate, Vitamin E Acetate, Coconut Oil, Soybean Oil, Zinc Sulfate, Niacinamide, Sucralose, D-Calcium Pantothenate, Vitamin K<sub>1</sub>, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D<sub>3</sub>, Beta-carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamin Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate.

**Contains:** Soy, Coconut Oil.

**Vanilla:** L-Asparagine Monohydrate, L-Glutamine, Sugar, L-Tyrosine, L-Lysine, Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, L-Valine, Tricalcium Phosphate, Glycine, L-Proline, L-Threonine, Natural and Artificial Flavor, L-Isoleucine, Magnesium Phosphate. Contains 2% or less of the following: Sodium Citrate, L-Histidine, L-Methionine, L-Tryptophan, Dipotassium Phosphate, Potassium Chloride, Choline Bitartrate, Soy Lecithin, L-Cystine, Sodium Chloride, Taurine, Ascorbic Acid, Inositol, Silicon Dioxide, L-Carnitine, Ferric Orthophosphate, Sucralose, Vitamin E Acetate, Zinc Sulfate, Niacinamide, D-Calcium Pantothenate, Vitamin K<sub>1</sub>, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D<sub>3</sub>, Beta-carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamin Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate.

**Contains:** Soy.





## PhenylAde® Amino Acid Blends

A phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and women of child-bearing age.

### Main Features:

- Phenylalanine free
- Only 40 calories per serving
- Available in cans and single-serve pouches

### MTE Amino Acid Blend

- Contains added calcium, phosphorus, magnesium, chromium, molybdenum, and selenium
- 100 g of powder provides 78 g of protein equivalent
- Displacement: 0.47 mL/g

### Amino Acid Blend

- 100 g of powder provides 81 g of protein equivalent
- Displacement: 0.48 mL/g

### Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code   | Reimbursement Code | HCPCS Code* | Product Packaging     | Calories Per Can/Pouch |
|----------------|--------------------|-------------|-----------------------|------------------------|
| <b>CANS</b>    |                    |             |                       |                        |
| 9500           | 00847-0950-00      | B4155       | 4 x 454 g (1 lb)      | 1466                   |
| 9596 - MTE     | 00847-0959-60      | B4155       | 4 x 454 g (1 lb)      | 1421                   |
| <b>POUCHES</b> |                    |             |                       |                        |
| 95004          | 00847-0950-04      | B4155       | 30 x 12.4 g (0.44 oz) | 40                     |
| 95964 - MTE    | 00847-0959-64      | B4155       | 30 x 12.8 g (0.45 oz) | 40                     |

**WIC<sup>+</sup> eligible in all States.**

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

#### Amino Acid Blend

| Nutrients             | Per 100 g | Per 10 g Protein Equivalent (1scoop/pouch) |
|-----------------------|-----------|--|
| Calories              | 323       | 40   |
| Protein Equivalent, g | 81        | 10   |
| Fat, g                | 0         | 0  |
| Carbohydrate, g       | 0         | 0  |
| <b>Amino Acids, g</b> |           |  |
| L-Alanine             | 7.46      | 0.93                                       |
| L-Arginine            | 6.33      | 0.79                                       |
| L-Asparagine          | 11.22     | 1.40                                       |
| L-Cystine             | 1.08      | 0.14                                       |
| L-Glutamine           | 12.5      | 1.55                                       |
| Glycine               | 4.87      | 0.61                                       |
| L-Histidine           | 2.03      | 0.25                                       |
| L-Isoleucine          | 3.34      | 0.42                                       |
| L-Leucine             | 7.20      | 0.90                                       |
| L-Lysine              | 5.84      | 0.73                                       |
| L-Methionine          | 1.95      | 0.24                                       |
| L-Phenylalanine       | Nil Added | Nil Added                                  |
| L-Proline             | 4.87      | 0.61                                       |
| L-Serine              | 7.20      | 0.90                                       |
| L-Threonine           | 3.70      | 0.46                                       |
| L-Tryptophan          | 1.85      | 0.23                                       |
| L-Tyrosine            | 8.65      | 1.08                                       |
| L-Valine              | 5.38      | 0.67                                       |
| L-Carnitine           | 0.12      | 0.01                                       |
| Taurine               | 0.24      | 0.03                                       |

#### MTE Amino Acid Blend

| Nutrients             | Per 100 g | Per 10 g Protein Equivalent (1scoop/pouch) |
|-----------------------|-----------|--|
| Calories              | 312       | 40   |
| Protein Equivalent, g | 78        | 10   |
| Fat, g                | 0         | 0  |
| Carbohydrate, g       | 0         | 0  |
| <b>Amino Acids, g</b> |           |  |
| L-Alanine             | 7.23      | 0.93                                       |
| L-Arginine            | 6.13      | 0.79                                       |
| L-Asparagine          | 10.87     | 1.40                                       |
| L-Cystine             | 1.05      | 0.14                                       |
| L-Glutamine           | 12.11     | 1.55                                       |
| Glycine               | 4.72      | 0.61                                       |
| L-Histidine           | 1.96      | 0.25                                       |
| L-Isoleucine          | 3.24      | 0.42                                       |
| L-Leucine             | 6.98      | 0.90                                       |
| L-Lysine              | 5.67      | 0.73                                       |
| L-Methionine          | 1.89      | 0.24                                       |
| L-Phenylalanine       | Nil Added | Nil Added                                  |
| L-Proline             | 4.72      | 0.61                                       |
| L-Serine              | 6.98      | 0.90                                       |
| L-Threonine           | 3.59      | 0.46                                       |
| L-Tryptophan          | 1.79      | 0.23                                       |
| L-Tyrosine            | 8.39      | 1.08                                       |
| L-Valine              | 5.22      | 0.67                                       |
| L-Carnitine           | 0.11      | 0.01                                       |
| Taurine               | 0.24      | 0.03                                       |

#### Minerals

|                 |       |       |
|-----------------|-------|-------|
| Calcium, mg     | 570   | 73    |
| Chloride, mg    | Trace | Trace |
| Chromium, mcg   | 23    | 3     |
| Magnesium, mg   | 123   | 15.8  |
| Molybdenum, mcg | 23    | 3     |
| Phosphorus, mg  | 570   | 73    |
| Sodium, mg      | Trace | Trace |
| Selenium, mcg   | 26    | 3.3   |

### Ingredients:

#### Amino Acid Blend

L-Asparagine Monohydrate, L-Glutamine, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, L-Valine, Glycine, L-Proline, L-Threonine, L-Isoleucine, L-Histidine, L-Methionine, L-Tryptophan, L-Cystine, Silicon Dioxide, Taurine and L-Carnitine.

#### MTE Amino Acid Blend

L-Asparagine Monohydrate, L-Glutamine, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, L-Valine, Glycine, L-Proline, L-Threonine, L-Isoleucine, Dicalcium Phosphate, L-Histidine, L-Methionine, L-Tryptophan, L-Cystine, Magnesium Phosphate (Dibasic), Silicon Dioxide, Taurine, L-Carnitine, Calcium Citrate, Chromium Chloride, Sodium Selenite, Sodium Molybdate.

**Note:** Must combine with an appropriate vitamin & mineral supplement when taken as the sole source of amino acid protein.



## PhenylAde® PheBLOC™ LNAA

A phenylalanine-free medical food containing the remaining essential amino acids (large neutral amino acids and lysine) for the dietary management of phenylketonuria (PKU) in individuals over 12 years of age.

### Main Features:

- Phenylalanine free
- Provides full compliment of essential amino acids (without phenylalanine)
- Simplifies diet management
- Suitable for those currently using sapropterin and prefer non-liquid PKU formula
- An option for late-diagnosed or those who have never been on-diet
- Available in tablets or powder

Visit [NutritionalLearningCenter.com](http://NutritionalLearningCenter.com) for guidelines on the usage of PhenylAde PheBloc LNAA in the dietary management of PKU.

### Indications:

- Phenylketonuria

### Precautions:

- Not for use when planning or during pregnancy
- Seek medical advice before using with serotonergic medications

*For details on administration, please see the end of this section.*

### Ordering/Reimbursement Information:

| Product Code   | Reimbursement Code | HCPCS Code* | Product Packaging      | Calories  |
|----------------|--------------------|-------------|------------------------|-----------|
| <b>TABLETS</b> |                    |             |                        |           |
| 95501          | 00847-0955-01      | B9998       | 550 x 750 mg (0.03 oz) | 1650/pack |
| <b>POUCHES</b> |                    |             |                        |           |
| 95504          | 00847-0955-04      | B4155       | 110 x 3 g (0.11 oz)    | 1100/case |

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per Tablet (750mg) | Per 5 Tablets (3,750mg) | Per 10 Tablets (7,500mg) |
|-----------------------|--------------------|-------------------------|--------------------------|
| Calories              | 3                  | 15                      | 30                       |
| Protein Equivalent, g | 0.44               | 2.2                     | 4.4                      |
| Fat, g                | 0.02               | 0.1                     | 0.2                      |
| Carbohydrate, g       | 0.2                | 1                       | 2                        |
| <b>Minerals</b>       |                    |                         |                          |
| Calcium, mg           | 43.5               | 218                     | 435                      |
| Sodium, mg            | 0.82               | 4.1                     | 8.2                      |
| Chloride, mg          | 5.5                | 28                      | 55                       |
| <b>Amino Acids, g</b> |                    |                         |                          |
| L-Arginine            | 0.03               | 0.17                    | 0.34                     |
| L-Histidine           | 0.03               | 0.16                    | 0.31                     |
| L-Isoleucine          | 0.03               | 0.16                    | 0.32                     |
| L-Leucine             | 0.03               | 0.15                    | 0.31                     |
| L-Lysine              | 0.02               | 0.12                    | 0.23                     |
| L-Methionine          | 0.05               | 0.25                    | 0.50                     |
| L-Phenylalanine       | Nil Added          | Nil Added               | Nil Added                |
| L-Threonine           | 0.03               | 0.16                    | 0.33                     |
| L-Tryptophan          | 0.06               | 0.31                    | 0.61                     |
| L-Tyrosine            | 0.20               | 0.98                    | 1.97                     |
| L-Valine              | 0.03               | 0.16                    | 0.32                     |

| Nutrients             | Per Pouch (3g Powder) | Per 2 Pouches (6g Powder) |
|-----------------------|-----------------------|---------------------------|
| Calories              | 10                    | 20                        |
| Protein Equivalent, g | 2.2                   | 4.4                       |
| Fat, g                | 0                     | 0                         |
| Carbohydrate, g       | 0.34                  | 0.68                      |
| <b>Minerals</b>       |                       |                           |
| Sodium, mg            | Trace                 | Trace                     |
| Chloride, mg          | 28                    | 56                        |
| <b>Amino Acids, g</b> |                       |                           |
| L-Arginine            | 0.17                  | 0.34                      |
| L-Histidine           | 0.16                  | 0.31                      |
| L-Isoleucine          | 0.16                  | 0.32                      |
| L-Leucine             | 0.15                  | 0.31                      |
| L-Lysine              | 0.12                  | 0.23                      |
| L-Methionine          | 0.25                  | 0.50                      |
| L-Phenylalanine       | Nil Added             | Nil Added                 |
| L-Threonine           | 0.16                  | 0.33                      |
| L-Tryptophan          | 0.31                  | 0.61                      |
| L-Tyrosine            | 0.98                  | 1.97                      |
| L-Valine              | 0.16                  | 0.32                      |

### Ingredients:

#### Tablet Ingredients:

L-Tyrosine, Calcium Carbonate, L-Tryptophan, L-Methionine, Microcrystalline Cellulose, L-Arginine, L-Threonine, L-Valine, L-Isoleucine, L-Histidine, L-Leucine, L-Lysine Monohydrochloride, Hydroxypropyl Methylcellulose, Stearic Acid, Croscarmellose Sodium, Magnesium Stearate and Silicon Dioxide.

#### Powder Ingredients:

L-Tyrosine, Maltodextrin, L-Tryptophan, L-Methionine, L-Arginine, L-Threonine, L-Valine, L-Isoleucine, L-Histidine, L-Leucine and L-Lysine Monohydrochloride



## Lanaflex®

A phenylalanine-free powdered medical food containing the remaining essential amino acids (large neutral amino acids and lysine) for the dietary management of phenylketonuria (PKU) in individuals over 12 years of age.

### Main Features:

- Phenylalanine free
- Contains lysine and other large neutral amino acids
- Contains carbohydrate, vitamins, minerals and trace elements
- One sachet of Lanaflex provides 6 g of amino acids equivalent to 5.2 g of protein
- Available in orange flavor
- Osmolality (mOsm/kg):  
Dilution  
1 to 4 1350

Visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com) for guidelines for the usage of Lanaflex in the dietary management of PKU.

### Indications:

- Phenylketonuria

### Precautions:

- Not for use when planning or during pregnancy
- Seek medical advice before using with serotonergic medications

For details on administration, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code* | Product Packaging    | Calories Per Sachet |
|--------------|--------------------|-------------|----------------------|---------------------|
| 12643        | 49735-0126-43      | B4157       | 40 x 15.8 g (0.6 oz) | 40                  |

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients                        | Per Sachet (15.8 g) |             | Minerals        | Per Sachet (15.8 g) |           |
|----------------------------------|---------------------|-------------|-----------------|---------------------|-----------|
|                                  | Per Sachet (15.8 g) | Per 100 g   |                 | Per Sachet (15.8 g) | Per 100 g |
| Calories                         | 40                  | 253         | Calcium, mg     | 474                 | 2998      |
| Protein Equivalent, g            | 5.2                 | 33          | Phosphorus, mg  | 456                 | 2888      |
| Fat, g                           | 0.16                | 1           | Magnesium, mg   | 122                 | 775       |
| Carbohydrate, g                  | 4.4                 | 28          | Iron, mg        | 5.9                 | 37.6      |
| <b>Amino Acids, g</b>            |                     |             | Zinc, mg        | 3.7                 | 23.2      |
| L-Histidine                      | 0.92                | 5.85        | Manganese, mg   | 0.73                | 4.6       |
| L-Isoleucine                     | 0.46                | 2.92        | Copper, mcg     | 332                 | 2100      |
| L-Leucine                        | 0.46                | 2.92        | Iodine, mcg     | 52.3                | 331       |
| L-Lysine                         | 0.46                | 2.92        | Molybdenum, mcg | 14.9                | 94.2      |
| L-Methionine                     | 0.92                | 5.85        | Chromium, mcg   | 10.6                | 66.9      |
| L-Threonine                      | 0.46                | 2.92        | Selenium, mcg   | 23.1                | 146       |
| L-Tryptophan                     | 0.92                | 5.85        | Sodium, mg      | 4.9                 | 31        |
| L-Tyrosine                       | 0.92                | 5.85        | Potassium, mg   | 3.5                 | 22        |
| L-Valine                         | 0.46                | 2.92        | Chloride, mg    | 0.25                | 1.6       |
| <b>Vitamins</b>                  |                     |             |                 |                     |           |
| Vitamin A IU, (mcg RE)           | 892 (268)           | 5644 (1695) |                 |                     |           |
| Vitamin D <sub>3</sub> IU, (mcg) | 135 (3.4)           | 852 (21.3)  |                 |                     |           |
| Vitamin E IU, (mg α-TE)          | 7.4 (5)             | 46.9 (31.5) |                 |                     |           |
| Vitamin K, mcg                   | 32.7                | 207         |                 |                     |           |
| Thiamin, mg                      | 0.36                | 2.3         |                 |                     |           |
| Riboflavin, mg                   | 0.38                | 2.4         |                 |                     |           |
| Vitamin B <sub>6</sub> , mg      | 0.65                | 4.1         |                 |                     |           |
| Vitamin B <sub>12</sub> , mcg    | 1.3                 | 8           |                 |                     |           |
| Niacin, mg                       | 2.2                 | 14.2        |                 |                     |           |
| Folic Acid, mcg                  | 197                 | 1246        |                 |                     |           |
| Pantothenic Acid, mg             | 1.9                 | 12.2        |                 |                     |           |
| Biotin, mcg                      | 9.8                 | 61.9        |                 |                     |           |
| Vitamin C, mg                    | 25.1                | 159         |                 |                     |           |
| Choline, mg                      | 165                 | 1045        |                 |                     |           |
| Inositol, mg                     | 32.1                | 203         |                 |                     |           |

### Ingredients:

Sugar, Calcium Phosphate, Artificial Flavors, L-Histidine, L-Tryptophan, L-Tyrosine, Tricalcium Phosphate, Magnesium Acetate, L-Lysine Acetate, N-Acetyl-L-Methionine, L-Leucine, L-Methionine, L-Threonine, L-Valine, L-Isoleucine, Choline Bitartrate, Guar Gum, Soy Lecithin, Citric Acid, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, Artificial Sweetener (Acesulfame Potassium), DL-Alpha-Tocopheryl Acetate, Zinc Sulfate, Nicotinamide, Manganese Sulfate, Calcium-D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Color (Beta Carotene), Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Cholecalciferol, Cyanocobalamin.

**Contains:** Soy.



## XPhe Maxamum®

A phenylalanine-free powdered medical food for the dietary management of phenylketonuria (PKU) in older children and adults, including pregnant women and women of child-bearing age.

### Main Features:

- Phenylalanine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- XPhe Maxamum provides 40 g of protein equivalent per 100 g of powder
- Available in unflavored and orange flavor
- Contains <1 g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake
- Available in cans or pouches
- Osmolality (mOsm/kg):
 

|          |            |        |
|----------|------------|--------|
| Dilution | Unflavored | Orange |
| 1 to 7   | 770        | 790    |
| 1 to 5   | 1090       | 1140   |
- Displacement: 0.6 mL/g

### Indications:

- Phenylketonuria

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code        | Reimbursement Code | HCPCS Code*    | Product Packaging  | Calories Per Can/Pouch |
|---------------------|--------------------|----------------|--------------------|------------------------|
| <b>CANS</b>         |                    |                |                    |                        |
| 118324 - Orange     | 49735-0183-24      | B4162 or B4157 | 6 x 454 g (1 lb)   | 1385                   |
| 118323 - Unflavored | 49735-0183-23      | B4162 or B4157 | 6 x 454 g (1 lb)   | 1385                   |
| <b>POUCHES</b>      |                    |                |                    |                        |
| 12312 - Orange      | 49735-0123-02      | B4162 or B4157 | 30 x 50 g (1.8 oz) | 153                    |
| 12311 - Unflavored  | 49735-0123-01      | B4162 or B4157 | 30 x 50 g (1.8 oz) | 153                    |

**WIC<sup>†</sup>: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 100 g | Per 10 g Protein Equivalent | Vitamins                          |                             |
|-----------------------|-----------|-----------------------------|-----------------------------------|-----------------------------|
|                       |           |                             | Per 100 g                         | Per 10 g Protein Equivalent |
| Calories              | 305       | 76                          | Vitamin A, IU (mcg RE)            | 2228 (669) 557 (167)        |
| Protein Equivalent, g | 40        | 10                          | Vitamin D <sub>3</sub> , IU (mcg) | 332 (8.3) 83 (2.1)          |
| Fat, g                | <1        | <0.25                       | Vitamin E, IU (mg α-TE)           | 18.3 (12.3) 4.6 (3.1)       |
| Carbohydrate, g       | 34        | 8.5                         | Vitamin K, mcg                    | 82 21                       |
| <b>Amino Acids, g</b> |           |                             | Thiamin, mg                       | 0.91 0.23                   |
| L-Alanine             | 1.6       | 0.40                        | Riboflavin, mg                    | 0.97 0.24                   |
| L-Arginine            | 3         | 0.75                        | Vitamin B <sub>6</sub> , mg       | 1.6 0.4                     |
| L-Aspartic Acid       | 2.8       | 0.70                        | Vitamin B <sub>12</sub> , mcg     | 3.1 0.8                     |
| L-Cystine             | 1.1       | 0.28                        | Niacin, mg                        | 5.7 1.4                     |
| Glycine               | 2.8       | 0.70                        | Folic Acid, mcg                   | 491 123                     |
| L-Histidine           | 1.7       | 0.43                        | Pantothenic Acid, mg              | 4.9 1.2                     |
| L-Isoleucine          | 2.7       | 0.68                        | Biotin, mcg                       | 24.5 6.1                    |
| L-Leucine             | 4.6       | 1.15                        | Vitamin C, mg                     | 62 16                       |
| L-Lysine              | 3.5       | 0.88                        | Choline, mg                       | 430 108                     |
| L-Methionine          | 0.73      | 0.18                        | Inositol, mg                      | 80 20                       |
| L-Phenylalanine       | Nil Added | Nil Added                   | <b>Minerals</b>                   |                             |
| L-Proline             | 3.2       | 0.80                        | Calcium, mg                       | 1183 296                    |
| L-Serine              | 2         | 0.50                        | Phosphorus, mg                    | 1137 284                    |
| L-Threonine           | 2.2       | 0.55                        | Magnesium, mg                     | 306 77                      |
| L-Tryptophan          | 0.89      | 0.22                        | Iron, mg                          | 14.7 3.7                    |
| L-Tyrosine            | 4         | 1.00                        | Zinc, mg                          | 9 2                         |
| L-Valine              | 2.9       | 0.73                        | Manganese, mg                     | 1.8 0.5                     |
| L-Carnitine           | 0.039     | 0.01                        | Copper, mcg                       | 820 205                     |
| Taurine               | 0.14      | 0.04                        | Iodine, mcg                       | 131 33                      |
| L-Glutamine           | 4.9       | 1.23                        | Molybdenum, mcg                   | 37 9                        |
|                       |           |                             | Chromium, mcg                     | 26 7                        |
|                       |           |                             | Selenium, mcg                     | 58 15                       |
|                       |           |                             | Sodium, mg                        | 560 140                     |
|                       |           |                             | Potassium, mg                     | 700 175                     |
|                       |           |                             | Chloride, mg                      | 560 140                     |

### Ingredients:

Sugar, L-Arginine L-Aspartate, L-Lysine Acetate, L-Glutamine, L-Leucine, L-Tyrosine, Calcium Glycerophosphate, L-Proline, L-Valine, Glycine, L-Isoleucine, L-Threonine, Tripotassium Citrate, Magnesium Hydrogen Phosphate, and 2% or less of each of the following: L-Serine, L-Histidine, L-Alanine, Calcium Phosphate Dibasic, Choline Bitartrate, L-Cystine, Tricalcium Phosphate, Sodium Chloride, N-Acetyl L-Methionine, Trisodium Citrate, L-Tryptophan, Soy Lecithin, Magnesium L-Aspartate, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Orange** flavored version also contains: Citric Acid, and 2% or less of each of the following: Artificial Flavor, Artificial Sweetener: Acesulfame Potassium, Artificial Colors (Beta Carotene, Beet Red).

**Contains:** Soy



## PKU Lophlex® LQ

A phenylalanine-free\*, ready-to-drink medical food containing amino acids, vitamins and minerals and DHA, based on fruit juice (from concentrate) with natural flavor; for the dietary management of proven phenylketonuria (PKU) in individuals 4 years and older, including pregnant women and women of child-bearing age.

### Main Features:

- Phenylalanine free
- Low volume; provides 20 g PE in just 4.2 fl oz (125 mL)
- Convenient ready-to-drink
- Made with real fruit juice from concentrate
- Contains a balanced mixture of other essential and non-essential amino acids, carbohydrates, vitamins and minerals
- Provides 150 mg of DHA per pouch
- Available in juicy orange, mixed berry blast and juicy tropical flavors
- Osmolality (at 0.96 kcal/mL): 2460 mOsm/kg

### Indications:

- Phenylketonuria

For details on administration, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code               | Reimbursement Code | HCPCS Code*     | Product Packaging       | Calories Per Pouch |
|----------------------------|--------------------|-----------------|-------------------------|--------------------|
| 86051<br>Juicy Orange      | 49735-0161-30      | B4157 and B4162 | 30 x 4.2 fl oz (125 mL) | 120                |
| 86021<br>Mixed Berry Blast | 49735-0161-29      | B4157 and B4162 | 30 x 4.2 fl oz (125 mL) | 120                |
| 86055<br>Juicy Tropical    | 49735-0195-35      | B4157 and B4162 | 30 x 4.2 fl oz (125 mL) | 120                |

**WIC<sup>†</sup>: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

\*May contain traces of phenylalanine (PHE) from fruit juice (from concentrate).

### Nutrition Information:

| Nutrients             | Per Pouch | Per 10 g           | Vitamins                          | Per Pouch | Per 10 g           |
|-----------------------|-----------|--------------------|-----------------------------------|-----------|--------------------|
|                       | (125 mL)  | Protein Equivalent |                                   | (125 mL)  | Protein Equivalent |
| Calories              | 120       | 60                 | Vitamin A, IU (mcg RE)            | 949 (285) | 475 (143)          |
| Protein Equivalent, g | 20        | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 320 (8)   | 160 (4)            |
| Fat, g                | 0.44      | 0.2                | Vitamin E, IU (mg α-TE)           | 4.8 (3.2) | 2.4 (1.6)          |
| DHA, mg               | 150       | 75                 | Vitamin K, mcg                    | 24.9      | 12.5               |
| Carbohydrate, g       | 9.3       | 4.7                | Thiamin, mg                       | 0.54      | 0.27               |
| Fiber, g              | 0.5       | 0.25               | Riboflavin, mg                    | 0.5       | 0.25               |
| <b>Amino Acids, g</b> |           |                    | Vitamin B <sub>6</sub> , mg       | 0.58      | 0.29               |
| L-Alanine             | 1.16      | 0.58               | Vitamin B <sub>12</sub> , mcg     | 1.8       | 0.90               |
| L-Arginine            | 2         | 1                  | Niacin, mg                        | 7.1       | 3.6                |
| L-Aspartic Acid       | 1.75      | 0.88               | Folic Acid, mcg                   | 120       | 60                 |
| L-Cystine             | 0.51      | 0.26               | Pantothenic Acid, mg              | 1.8       | 0.9                |
| Glycine               | 1.88      | 0.94               | Biotin, mcg                       | 53.4      | 26.7               |
| L-Histidine           | 0.79      | 0.40               | Vitamin C, mg                     | 17.8      | 8.9                |
| L-Isoleucine          | 1.24      | 0.62               | Choline, mg                       | 153       | 76.5               |
| L-Leucine             | 2.13      | 1.1                | Inositol, mg                      | 40.6      | 20.3               |
| L-Lysine              | 1.63      | 0.82               | <b>Minerals</b>                   |           |                    |
| L-Methionine          | 0.34      | 0.17               | Calcium, mg                       | 319       | 160                |
| L-Phenylalanine       | Trace*    | Trace*             | Phosphorus, mg                    | 244       | 122                |
| L-Proline             | 2         | 1                  | Magnesium, mg                     | 96.3      | 48.2               |
| L-Serine              | 1.09      | 0.55               | Iron, mg                          | 5.1       | 2.6                |
| L-Threonine           | 1.04      | 0.52               | Zinc, mg                          | 3.8       | 1.9                |
| L-Tryptophan          | 0.41      | 0.21               | Manganese, mg                     | 0.56      | 0.28               |
| L-Tyrosine            | 1.88      | 0.94               | Copper, mcg                       | 563       | 282                |
| L-Valine              | 1.38      | 0.69               | Iodine, mcg                       | 56.3      | 28.2               |
| L-Carnitine           | 0.01      | 0.01               | Molybdenum, mcg                   | 25        | 12.5               |
| Taurine               | 0.1       | 0.05               | Chromium, mcg                     | 10.8      | 5.4                |
|                       |           |                    | Selenium, mcg                     | 26.8      | 13.4               |
|                       |           |                    | Sodium, mg                        | <25       | <12.5              |
|                       |           |                    | Potassium, mg                     | 90        | 45                 |
|                       |           |                    | Chloride, mg                      | <25       | <12.5              |

### Ingredients:

Water, and less than 2% of each of the following: L-Leucine, Citric Acid, L-Proline, L-Arginine, Glycine, L-Tyrosine, L-Lysine Acetate, L-Valine, L-Aspartic Acid, L-Isoleucine, Dicalcium Phosphate, L-Alanine, L-Serine, L-Threonine, L-Histidine, L-Lysine, L-Aspartate, Maltodextrin, Magnesium Acetate, L-Cystine, Choline Bitartrate, L-Tryptophan, Sugar, C. *Cohnii* Oil\*\*, N-Acetyl L-Methionine, Microcrystalline Cellulose, L-Ascorbic Acid, Taurine, L-Methionine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate (preservative to delay spoilage), Ferrus Lactate, Cellulose Gum, Artificial Sweetener: Acesulfame Potassium, L-Carnitine, Sodium Benzoate (preservative to delay spoilage), Zinc Sulfate, Niacinamide, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Mixed Tocopherols, Sodium Molybdate, D-Biotin, Sodium Selenite, Chromium Chloride, Phylloquinone, Vitamin D<sub>3</sub>, Cyanocobalamin.

\*\*A Source Of Docosaheptaenoic Acid (DHA)

**Juicy Orange** flavored version also contains: Orange Juice from Concentrate (45.5%), Corn Syrup Solids, and less than 2% of the following: Natural Flavor, Artificial Sweetener: Sucralose.

**Mixed Berry Blast** flavored version also contains: Apple Juice from Concentrate (34.1%), Grape Juice from Concentrate (6.9%), Blackcurrant Juice from Concentrate (2.5%), and less than 2% of the following: Elderberry Juice from Concentrate (0.6%), Natural Flavor, Concentrate (Apple, Blackcurrant, Radish), Artificial Sweetener: Sucralose.



## PKU Lophlex® Powder

A low volume, phenylalanine-free, powdered medical food for the dietary management of phenylketonuria (PKU) in older children and adults, including pregnant women and women of child-bearing age.

### Main Features:

- Phenylalanine free
- Low volume and low calorie
- Contains vitamins, minerals, and trace elements
- Age-appropriate DRI formulation
- Lophlex provides 10 g of protein equivalent per sachet
- Available in berry and orange flavors
- Osmolality (mOsm/kg):

| Dilution | Orange | Berry |
|----------|--------|-------|
| 1 to 5   | 1390   | 1340  |

### Indications:

- Phenylketonuria

For details on administration, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code   | Reimbursement Code | HCPCS Code*    | Product Packaging    | Calories Per Sachet |
|----------------|--------------------|----------------|----------------------|---------------------|
| 12169 - Berry  | 49735-0121-69      | B4157 or B4162 | 30 x 14.3 g (0.5 oz) | 42                  |
| 12167 - Orange | 49735-0121-67      | B4157 or B4162 | 30 x 14.3 g (0.5 oz) | 42                  |

**WIC†: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 100 g | Persachet (14.3 g) | Vitamins                          | Per 100 g   | Per sachet (14.3 g) |
|-----------------------|-----------|--------------------|-----------------------------------|-------------|---------------------|
| Calories              | 286       | 41                 | Vitamin A, IU (mcg RE)            | 3896 (1170) | 557 (167)           |
| Protein Equivalent, g | 70        | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 580 (14.5)  | 82.9 (2.1)          |
| Fat, g                | 0.2       | 0.03               | Vitamin E, IU (mg α-TE)           | 32 (21.5)   | 4.6 (3.1)           |
| Carbohydrate, g       | 1         | 0.14               | Vitamin K, mcg                    | 143         | 20.4                |
| <b>Amino Acids, g</b> |           |                    | Thiamin, mg                       | 1.6         | 0.23                |
| L-Alanine             | 3.3       | 0.47               | Riboflavin, mg                    | 1.7         | 0.24                |
| L-Arginine            | 5.8       | 0.83               | Vitamin B <sub>6</sub> , mg       | 2.8         | 0.4                 |
| L-Aspartic Acid       | 5.4       | 0.77               | Vitamin B <sub>12</sub> , mcg     | 5.5         | 0.79                |
| L-Cystine             | 2.2       | 0.31               | Niacin, mg                        | 10          | 1.4                 |
| Glycine               | 5.1       | 0.73               | Folic Acid, mcg                   | 860         | 123                 |
| L-Histidine           | 3.3       | 0.47               | Pantothenic Acid, mg              | 8.6         | 1.2                 |
| L-Isoleucine          | 5.1       | 0.73               | Biotin, mcg                       | 43          | 6.1                 |
| L-Leucine             | 8.7       | 1.24               | Vitamin C, mg                     | 110         | 15.7                |
| L-Lysine              | 5.9       | 0.84               | Choline, mg                       | 720         | 103                 |
| L-Methionine          | 1.4       | 0.2                | Inositol, mg                      | 140         | 20                  |
| L-Phenylalanine       | Nil Added | Nil Added          | <b>Minerals</b>                   |             |                     |
| L-Proline             | 6.2       | 0.89               | Calcium, mg                       | 2070        | 296                 |
| L-Serine              | 3.8       | 0.54               | Phosphorus, mg                    | 1990        | 285                 |
| L-Threonine           | 4.3       | 0.61               | Magnesium, mg                     | 535         | 76.5                |
| L-Tryptophan          | 1.7       | 0.24               | Iron, mg                          | 25.7        | 3.7                 |
| L-Tyrosine            | 7.8       | 1.12               | Zinc, mg                          | 15.8        | 2.3                 |
| L-Valine              | 5.6       | 0.8                | Manganese, mg                     | 3.1         | 0.44                |
| L-Carnitine           | 0.06      | 0.01               | Copper, mcg                       | 1430        | 204                 |
| Taurine               | 0.11      | 0.02               | Iodine, mcg                       | 229         | 32.7                |
| L-Glutamine           | 3.95      | 0.56               | Molybdenum, mcg                   | 65          | 9.3                 |
|                       |           |                    | Chromium, mcg                     | 46          | 6.6                 |
|                       |           |                    | Selenium, mcg                     | 101         | 14.4                |
|                       |           |                    | Sodium, mg                        | <20         | <3                  |
|                       |           |                    | Potassium, mg                     | <40         | <6                  |
|                       |           |                    | Chloride, mg                      | <1          | <1                  |

### Ingredients:

**Berry:** L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, L-Proline, L-Arginine, Calcium Phosphate Tribasic, L-Valine, Glycine, L-Isoleucine, L-Threonine, Magnesium Hydrogen Phosphate, L-Glutamine, L-Serine, L-Histidine, L-Alanine, Citric Acid, L-Cystine, N-Acetyl L-Methionine, Choline Bitartrate, L-Tryptophan, Calcium Phosphate Monobasic, Guar Gum, Artificial Flavor, Soy Lecithin, L-Ascorbic Acid, M-Inositol, Artificial Sweetener: Acesulfame Potassium\*, Taurine, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, Di-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Beet Juice (For Color), Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Orange:** L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, L-Proline, L-Arginine, Calcium Phosphate Tribasic, L-Valine, Glycine, L-Isoleucine, Magnesium Hydrogen Phosphate, L-Threonine, L-Glutamine, L-Serine, L-Histidine, L-Alanine, Citric Acid, L-Cystine, N-Acetyl L-Methionine, Choline Bitartrate, L-Tryptophan, Calcium Phosphate Monobasic, Artificial Flavor, Guar Gum, Soy Lecithin, L-Ascorbic Acid, M-Inositol, Artificial Sweetener: Acesulfame Potassium\*, Taurine, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, Di-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Beet Juice (For Color), Beta Carotene (For Color), Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

Both Flavors  
Contains: Soy.



## Phlexy-10® Tablets

A phenylalanine-free medical food in tablet form for the dietary management of phenylketonuria (PKU) in individuals over 8 years of age, including pregnant women and women of child-bearing age.

### Main Features:

- Phenylalanine free
- Every 12 tablets provide 10 g of protein equivalent
- A great alternative to PKU liquid consumption

### Indications:

- Phenylketonuria

*For details on administration, please see the end of this section.*

### Ordering/Reimbursement Information:

| Product Code    | Reimbursement Code | HCPCS Code* | Product Packaging | Calories   |
|-----------------|--------------------|-------------|-------------------|------------|
| 11951 - Tablets | 49735-0019-51      | A9270       | 75/bottle         | 285/bottle |

**WIC†: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 Tablets | Per 12 Tablets |
|-----------------------|----------------|----------------|
| Calories              | 41             | 49             |
| Protein Equivalent, g | 8.3            | 10.0           |
| Fat, g                | 0.38           | 0.46           |
| Saturated, g          | 0.36           | 0.43           |
| Carbohydrate, g       | 3.7            | 4.3            |
| Fiber, g              | 3.0            | 3.5            |
| <b>Amino Acids, g</b> |                |                |
| L-Alanine             | 0.41           | 0.49           |
| L-Arginine            | 0.72           | 0.86           |
| L-Aspartic Acid       | 0.68           | 0.82           |
| L-Cystine             | 0.27           | 0.32           |
| L-Glutamic Acid       | Nil Added      | Nil Added      |
| Glycine               | 0.64           | 0.77           |
| L-Histidine           | 0.41           | 0.49           |
| L-Isoleucine          | 0.64           | 0.77           |
| L-Leucine             | 1.09           | 1.3            |
| L-Lysine              | 0.74           | 0.89           |
| L-Methionine          | 0.17           | 0.20           |
| L-Phenylalanine       | Nil Added      | Nil Added      |
| L-Proline             | 0.77           | 0.92           |
| L-Serine              | 0.47           | 0.56           |
| L-Threonine           | 0.54           | 0.65           |
| L-Tryptophan          | 0.22           | 0.26           |
| L-Tyrosine            | 0.97           | 1.2            |
| L-Valine              | 0.7            | 0.84           |
| L-Carnitine           | 0.01           | 0.01           |
| Taurine               | 0.01           | 0.02           |
| L-Glutamine           | 0.50           | 0.60           |

### Ingredients:

Microcrystalline Cellulose, L-Leucine, L-Tyrosine, L-Lysine Hydrochloride, L-Proline, L-Arginine, L-Valine, L-Aspartic Acid, Pregelatinized Corn Starch, Glycine, L-Isoleucine, L-Threonine, L-Glutamine, L-Serine, L-Alanine, L-Histidine, Magnesium Stearate, L-Cystine, Hydroxypropyl Methyl Cellulose, L-Tryptophan, Acacia Gum, L-Methionine, Stearic Acid, Glycerol, Taurine, L-Carnitine.



## Phlexy-10® Drink Mix

A phenylalanine-free powdered medical food for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and women of child-bearing age.

### Main Features:

- Phenylalanine free
- Available in black currant/apple or tropical surprise flavor
- Each pouch provides 8.33 g PE
- Convenient, pre-measured single serve pouches
- Osmolality (mOsm/kg):

| Dilution | Blackcurrant-Apple | Tropical Surprise |
|----------|--------------------|-------------------|
| 1 to 5   | 1172               | 1140              |

### Indications:

- Phenylketonuria

For details on administration, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code                           | Reimbursement Code | HCPCS Code*    | Product Packaging  | Calories |
|--|--------------------|----------------|--------------------|----------|
| 11467 - Drink Mix (Blackcurrant-Apple) | 49735-0114-67      | B4157 or B4162 | 30 x 20 g (0.7 oz) | 69/pouch |
| 11910 - Drink Mix (Tropical Surprise)  | 49735-0119-10      | B4157 or B4162 | 30 x 20 g (0.7 oz) | 69/pouch |

**WIC†: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 20 g Pouch |
|-----------------------|----------------|
| Calories              | 69             |
| Protein Equivalent, g | 8.33           |
| Fat, g                | Nil Added      |
| Saturated, g          | Nil Added      |
| Monounsaturated, g    | Nil Added      |
| Polyunsaturated, g    | Nil Added      |
| Carbohydrate, g       | 8.8            |
| Fiber, g              | Nil Added      |

### Amino Acids, g

|                 |           |
|-----------------|-----------|
| L-Alanine       | 0.41      |
| L-Arginine      | 0.72      |
| L-Aspartic Acid | 0.68      |
| L-Cystine       | 0.27      |
| Glycine         | 0.64      |
| L-Histidine     | 0.41      |
| L-Isoleucine    | 0.64      |
| L-Leucine       | 1.09      |
| L-Lysine        | 0.74      |
| L-Methionine    | 0.17      |
| L-Phenylalanine | Nil Added |
| L-Proline       | 0.77      |
| L-Serine        | 0.47      |
| L-Threonine     | 0.54      |
| L-Tryptophan    | 0.22      |
| L-Tyrosine      | 0.97      |
| L-Valine        | 0.7       |
| L-Carnitine     | 0.007     |
| Taurine         | 0.014     |
| L-Glutamine     | 0.5       |

### Ingredients:

**Phlexy-10 Drink Mix (blackcurrant/apple):** Sucrose, L-Lysine Aspartate, L-Leucine, L-Tyrosine, Artificial Flavors, L-Proline, L-Arginine, L-Valine, L-Isoleucine, Glycine, Malic Acid, L-Threonine, L-Glutamine, Corn Syrup Solids, L-Serine, L-Histidine, L-Alanine, L-Cystine, N-Acetyl L-Methionine, L-Tryptophan, Soy Lecithin, Taurine, L-Carnitine, Artificial Sweetener: Acesulfame Potassium, Artificial Color.

**Phlexy-10 Drink Mix (tropical surprise):** Sucrose, L-Lysine Aspartate, Artificial Flavors, L-Leucine, L-Tyrosine, L-Proline, L-Arginine, L-Valine, Citric Acid, Glycine, L-Isoleucine, L-Threonine, L-Glutamine, Corn Syrup Solids, L-Serine, L-Histidine, L-Alanine, L-Cystine, N-Acetyl L-Methionine, L-Tryptophan, Soy Lecithin, Artificial Sweetener: Acesulfame Potassium, Taurine, L-Carnitine, Artificial Color.

**Contains:** Soy.

Must combine with an appropriate vitamin and mineral supplement when taken as the sole source of amino acid protein.





## MSUD Anamix® Early Years

A valine-, leucine-, and isoleucine-free powdered infant formula with iron, for the dietary management of maple syrup urine disease (MSUD). Contains DHA and ARA, and a unique blend of prebiotic fiber.

### Main Features:

- Valine-, leucine-, and isoleucine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic fiber blend
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent per 100 g of powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg  
Based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

Visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com) for guidelines for the nutritional management of MSUD.

### Indications:

- Maple syrup urine disease (MSUD)

*For details on administration and household measurements, please see the end of this section.*

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code* | Product Packaging | Calories Per Can |
|--------------|--------------------|-------------|-------------------|------------------|
| 90168        | 49735-0101-68      | B4162       | 6 x 400 g (14 oz) | 1892             |

**WIC<sup>†</sup>: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 100 g          |                    | Vitamins                          | Per 100 g  |                    |
|-----------------------|--------------------|--------------------|-----------------------------------|------------|--------------------|
|                       | Protein Equivalent | Protein Equivalent |                                   | Per 100 g  | Protein Equivalent |
| Calories              | 473                | 350                | Vitamin A, IU (mcg RE)            | 1305 (392) | 967 (290)          |
| Protein Equivalent, g | 13.5               | 10.0               | Vitamin D <sub>3</sub> , IU (mcg) | 348 (8.7)  | 258 (6.4)          |
| Fat, g                | 23.0               | 17.0               | Vitamin E, IU (mg α-TE)           | 10.9 (7.3) | 8.1 (5.4)          |
| Saturated, g          | 7.5                | 5.6                | Vitamin K, mcg                    | 38.0       | 28.1               |
| Monounsaturated, g    | 9.4                | 7.0                | Thiamin, mcg                      | 640        | 474                |
| Polyunsaturated, g    | 5.0                | 3.7                | Riboflavin, mcg                   | 500        | 370                |
| DHA, mg               | 70.0               | 51.9               | Vitamin B <sub>6</sub> , mcg      | 500        | 370                |
| ARA, mg               | 140                | 104                | Vitamin B <sub>12</sub> , mcg     | 1.2        | 0.89               |
| Linoleic Acid, mg     | 3500               | 2593               | Niacin, mcg                       | 2200       | 1630               |
| Carbohydrate, g       | 53.0               | 39.3               | Folic Acid, mcg                   | 55.0       | 40.7               |
| Fiber, g              | 5.3                | 3.9                | Pantothenic Acid, mcg             | 2800       | 2074               |
| GOS, g                | 4.7                | 3.5                | Biotin, mcg                       | 18.2       | 13.5               |
| FOS, g                | 0.55               | 0.41               | Vitamin C, mg                     | 49.0       | 36.3               |
| <b>Amino Acids, g</b> |                    |                    | Choline, mg                       | 91.0       | 67.4               |
| L-Alanine             | 0.82               | 0.61               | Inositol, mg                      | 98.0       | 72.6               |
| L-Arginine            | 1.4                | 1.0                | <b>Minerals</b>                   |            |                    |
| L-Aspartic Acid       | 1.2                | 0.89               | Calcium, mg                       | 371        | 275                |
| L-Cystine             | 0.52               | 0.39               | Phosphorus, mg                    | 270        | 200                |
| L-Glutamic Acid       | 1.6                | 1.2                | Magnesium, mg                     | 52.5       | 38.9               |
| L-Glutamine           | 0.13               | 0.10               | Iron, mg                          | 7.3        | 5.4                |
| Glycine               | 1.29               | 0.96               | Zinc, mg                          | 5.2        | 3.9                |
| L-Histidine           | 0.8                | 0.59               | Manganese, mcg                    | 390        | 289                |
| L-Isoleucine          | Nil Added          | Nil Added          | Copper, mcg                       | 390        | 289                |
| L-Leucine             | Nil Added          | Nil Added          | Iodine, mcg                       | 82.5       | 61.1               |
| L-Lysine              | 1.45               | 1.1                | Molybdenum, mcg                   | 10.9       | 8.1                |
| L-Methionine          | 0.34               | 0.25               | Chromium, mcg                     | 12.5       | 9.3                |
| L-Phenylalanine       | 0.94               | 0.70               | Selenium, mcg                     | 14.1       | 10.4               |
| L-Proline             | 1.56               | 1.2                | Sodium, mg                        | 171        | 127                |
| L-Serine              | 0.96               | 0.71               | Potassium, mg                     | 454        | 336                |
| L-Threonine           | 1.05               | 0.78               | Chloride, mg                      | 321        | 238                |
| L-Tryptophan          | 0.42               | 0.31               |                                   |            |                    |
| L-Tyrosine            | 0.94               | 0.70               |                                   |            |                    |
| L-Valine              | Nil Added          | Nil Added          |                                   |            |                    |
| L-Carnitine           | 0.01               | 0.01               |                                   |            |                    |
| Taurine               | 0.02               | 0.01               |                                   |            |                    |

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-Hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (GOS) Dried Syrup (from milk), L-Lysine L-Glutamate, L-Proline, L-Arginine, Glycine, L-Aspartic Acid, Tricalcium Phosphate, L-Threonine, CAEM (an emulsifier), L-Tyrosine, L-Phenylalanine, L-Serine, L-Histidine, L-Alanine, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, L-Cystine, L-Tryptophan, Sodium Phosphate Dibasic, Magnesium Acetate, L-Methionine, M. Alpina Oil\*, Choline Bitartrate, C. Cohnii Oil\*\*, L-Glutamine, Sodium Chloride, M-Inositol, L-Ascorbic Acid, L-Glutamic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Contains:** Soy Oil, Coconut Oil, Milk.

\*A source of Arachidonic Acid (ARA)

\*\*A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL



## Complex Junior MSD Drink Mix

A valine-, leucine-, and isoleucine-free powdered medical food for the dietary management of maple syrup urine disease (MSUD) in young children.

### Main Features:

- Valine, leucine, and isoleucine free
- Amino acid profile specifically designed for MSUD; clinically researched in one study<sup>†</sup>
- Includes DHA & ARA
- Essential vitamins and minerals to help meet needs of young children with MSUD
- Mild neutral flavor
- Provides 13 g of protein equivalent per 100 g of powder
- Displacement: 0.7 mL/g

### Indications:

- Maple syrup urine disease (MSUD)

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging   | Calories Per Can |
|--------------|--------------------|----------------|---------------------|------------------|
| 5910         | 00847-0591-02      | B4157 or B4162 | 4 x 400 g (14.1 oz) | 1976             |

**WIC<sup>‡</sup>: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

<sup>†</sup> Strauss KA et al. Mol Genet Metab. 2010;99:333-45.

### Nutrition Information:

| Nutrients             | Per 100 g | Per 100 kcal | Vitamins                          | Per 100 g  | Per 100 kcal |
|-----------------------|-----------|--------------|-----------------------------------|------------|--------------|
| Calories              | 494       | 100          | Vitamin A, IU (mcg RE)            | 1187 (356) | 240 (72)     |
| Protein Equivalent, g | 13        | 2.6          | Vitamin D <sub>3</sub> , IU (mcg) | 429 (10.7) | 87 (2.2)     |
| Fat, g                | 29        | 6            | Vitamin E, IU (mg α-TE)           | 13.8 (9.2) | 2.8 (1.9)    |
| Saturated, g          | 10.2      | 2.1          | Vitamin K, mcg                    | 62         | 12.6         |
| Monounsaturated, g    | 13.4      | 2.7          | Thiamin, mg                       | 1.1        | 0.22         |
| Polyunsaturated, g    | 5.0       | 1.0          | Riboflavin, mg                    | 0.81       | 0.16         |
| DHA, mg               | 88        | 17.9         | Vitamin B <sub>6</sub> , mg       | 0.78       | 0.16         |
| ARA, mg               | 88        | 17.9         | Vitamin B <sub>12</sub> , mcg     | 2          | 0.4          |
| Linoleic Acid, mg     | 3730      | 755          | Niacin, mg                        | 5.8        | 1.2          |
| Carbohydrate, g       | 46        | 9            | Folic Acid, mcg                   | 140        | 28           |
| <b>Amino Acids, g</b> |           |              | Pantothenic Acid, mg              | 3.4        | 0.69         |
| L-Alanine             | 1.40      | 0.28         | Biotin, mcg                       | 36         | 7.2          |
| L-Arginine            | 0.66      | 0.13         | Vitamin C, mg                     | 78         | 15.8         |
| L-Asparagine          | 0.75      | 0.15         | Choline, mg                       | 244        | 49           |
| L-Cystine             | 0.29      | 0.06         | Inositol, mg                      | 148        | 30           |
| L-Glutamic Acid       | 0.45      | 0.09         | <b>Minerals</b>                   |            |              |
| L-Glutamine           | 3.71      | 0.75         | Calcium, mg                       | 596        | 121          |
| Glycine               | 0.35      | 0.07         | Phosphorus, mg                    | 444        | 90           |
| L-Histidine           | 0.92      | 0.19         | Magnesium, mg                     | 68         | 13.8         |
| L-Isoleucine          | Nil Added | Nil Added    | Iron, mg                          | 14.7       | 3            |
| L-Leucine             | Nil Added | Nil Added    | Zinc, mg                          | 29         | 5.8          |
| L-Lysine              | 1.17      | 0.24         | Manganese, mg                     | 0.44       | 0.09         |
| L-Methionine          | 0.38      | 0.08         | Copper, mcg                       | 952        | 193          |
| L-Phenylalanine       | 1.14      | 0.23         | Iodine, mcg                       | 96         | 19.4         |
| L-Proline             | 0.76      | 0.16         | Molybdenum, mcg                   | 15.8       | 3.2          |
| L-Serine              | 0.58      | 0.12         | Chromium, mcg                     | 16.2       | 3.3          |
| L-Threonine           | 0.94      | 0.19         | Selenium, mcg                     | 44         | 8.9          |
| L-Tryptophan          | 0.69      | 0.14         | Sodium, mg                        | 303        | 61           |
| L-Tyrosine            | 1.14      | 0.23         | Potassium, mg                     | 797        | 161          |
| L-Valine              | Nil Added | Nil Added    | Chloride, mg                      | 384        | 78           |
| L-Carnitine           | 0.03      | 0.01         |                                   |            |              |
| Taurine               | 0.07      | 0.01         |                                   |            |              |

### Ingredients:

Corn Syrup Solids, Maltodextrin, Modified Corn Starch, Canola Oil, Safflower Oil, Coconut Oil, L-Glutamine, Soybean Oil. Contains 2% or less of the following: Tricalcium Phosphate, L-Lysine Acetate, L-Alanine, L-Phenylalanine, L-Tyrosine, Sodium Citrate, Dipotassium Phosphate, L-Threonine, L-Histidine, L-Asparagine Monohydrate, L-Proline, L-Tryptophan, Choline Bitartrate, L-Arginine, Ascorbyl Palmitate, Mixed Tocopherols, Magnesium Chloride, Rosemary Extract, L-Serine, Potassium Citrate, Potassium Chloride, L-Glutamic Acid, L-Methionine, Glycine, Silicon Dioxide, L-Cystine, C. *Cohnii* Oil,\* Glucose Syrup Solids, Mono- and Diglycerides, M. *Alpina* Oil,\*\* Inositol, Ascorbic Acid, Zinc Sulfate, Taurine, Ferrous Sulfate, High Oleic Sunflower Oil, Mannitol, L-Carnitine, Vitamin E Acetate, Glycerol, Mono- and Distearate, Natural Flavor, Sodium Polyphosphate, Sunflower Lecithin, Sodium Ascorbate, Vitamin K<sub>1</sub>, Nicotinamide, Vitamin A Palmitate, Vitamin D<sub>3</sub>, D-Calcium Pantothenate, D-Biotin, Copper Sulfate, Manganese Sulfate, Thiamin Hydrochloride, Potassium Iodide, Pyridoxine Hydrochloride, Sodium Selenite, Riboflavin, Vitamin B<sub>12</sub>, Folic Acid, Chromium Chloride, Sodium Molybdate.

**Contains:** Coconut Oil, Soybean Oil.

\* A source of Docosahexaenoic Acid (DHA)

\*\* A source of Arachidonic Acid (ARA)



## Complex Essential MSD Drink Mix

A valine-, leucine-, and isoleucine-free powdered medical food for the dietary management of maple syrup urine disease (MSUD) in children and adults, including pregnant women and women of child bearing age.

### Main Features:

- Valine, leucine, and isoleucine free
- Amino acid profile specifically designed for MSUD; clinically researched in one study<sup>1</sup>
- Complete with essential vitamins and minerals
- Provides 25 g of protein equivalent per 100 g powder
- Vanilla flavor
- Osmolality (at 0.63 kcal/mL): 813 mOsm/kg  
Based on dilution of 40 g powder (1 scoop) to 7 fl oz (210 mL) water
- Displacement: 0.75 mL/g

### Indications:

- Maple syrup urine disease (MSUD)

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|--------------|--------------------|----------------|-------------------|------------------|
| 5972         | 00847-0597-22      | B4157 or B4162 | 4 x 454 g (1 lb)  | 1725             |

**WIC†: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 100 g | Per 10 g Protein Equivalent (1 scoop) | Nutrients                                     | Per 100 g   | Per 10 g Protein Equivalent (1 scoop) |
|-----------------------|-----------|---------------------------------------|---|-------------|---------------------------------------|
| Calories              | 380       | 152                                   | Vitamin A, IU (mcg RE) (25% as beta-carotene) | 1700 (637)  | 680 (255)                             |
| Protein Equivalent, g | 25        | 10                                    | Vitamin D <sub>3</sub> , IU (mcg)             | 600 (15)    | 240 (6)                               |
| Fat, g                | 12        | 5                                     | Vitamin E, IU (mg α-TE)                       | 18.4 (12.3) | 7.3 (4.9)                             |
| Saturated, g          | 2.8       | 1.1                                   | Vitamin K, mcg                                | 50          | 20                                    |
| Monounsaturated, g    | 6.3       | 2.5                                   | Thiamin, mg                                   | 1.5         | 0.6                                   |
| Polyunsaturated, g    | 2.7       | 1.1                                   | Riboflavin, mg                                | 1.5         | 0.6                                   |
| Linoleic Acid, mg     | 1733      | 693                                   | Vitamin B <sub>6</sub> , mg                   | 1.3         | 0.52                                  |
| α-Linolenic Acid, mg  | 662       | 265                                   | Vitamin B <sub>12</sub> , mcg                 | 2           | 0.8                                   |
| Carbohydrate, g       | 47        | 19                                    | Niacin, mg                                    | 12          | 4.8                                   |
| Fiber, g              | 3.9       | 1.5                                   | Folic Acid, mcg                               | 250         | 100                                   |
| <b>Amino Acids, g</b> |           |                                       | Pantothenic Acid, mg                          | 5.5         | 2.2                                   |
| L-Alanine             | 2.70      | 1.08                                  | Biotin, mcg                                   | 30          | 12                                    |
| L-Arginine            | 1.28      | 0.51                                  | Vitamin C, mg                                 | 60          | 24                                    |
| L-Asparagine          | 1.45      | 0.58                                  | Choline, mg                                   | 100         | 40                                    |
| L-Cystine             | 0.56      | 0.22                                  | Inositol, mg                                  | 40          | 16                                    |
| L-Glutamic Acid       | 0.86      | 0.35                                  | <b>Minerals</b>                               |             |                                       |
| L-Glutamine           | 7.17      | 2.87                                  | Calcium, mg                                   | 886         | 355                                   |
| Glycine               | 0.67      | 0.27                                  | Phosphorus, mg                                | 864         | 346                                   |
| L-Histidine           | 1.79      | 0.71                                  | Magnesium, mg                                 | 200         | 80                                    |
| L-Isoleucine          | Nil Added | Nil Added                             | Iron, mg                                      | 13          | 5                                     |
| L-Leucine             | Nil Added | Nil Added                             | Zinc, mg                                      | 12          | 4.8                                   |
| L-Lysine              | 2.27      | 0.91                                  | Manganese, mg                                 | 1.5         | 0.6                                   |
| L-Methionine          | 0.74      | 0.30                                  | Copper, mcg                                   | 1000        | 400                                   |
| L-Phenylalanine       | 2.20      | 0.88                                  | Iodine, mcg                                   | 120         | 48                                    |
| L-Proline             | 1.48      | 0.59                                  | Molybdenum, mcg                               | 75          | 30                                    |
| L-Serine              | 1.12      | 0.45                                  | Chromium, mcg                                 | 40          | 16.1                                  |
| L-Threonine           | 1.81      | 0.72                                  | Selenium, mcg                                 | 100         | 40                                    |
| L-Tryptophan          | 1.33      | 0.53                                  | Sodium, mg                                    | 600         | 240                                   |
| L-Tyrosine            | 2.20      | 0.88                                  | Potassium, mg                                 | 1301        | 520                                   |
| L-Valine              | Nil Added | Nil Added                             | Chloride, mg                                  | 860         | 344                                   |
| L-Carnitine           | 0.06      | 0.02                                  |   |             |                                       |
| Taurine               | 0.14      | 0.06                                  |   |             |                                       |

### Ingredients:

Sugar, L- Glutamine, Modified Food Starch, Dextrin, Canola Oil, Maltodextrin, Safflower Oil, L-Lysine Acetate, L-Alanine, Natural and Artificial Flavor, Tricalcium Phosphate, Potassium Citrate, L-Phenylalanine, L-Tyrosine. Contains 2% or less of the following: L-Threonine, L-Histidine, L-Asparagine Monohydrate, Magnesium Phosphate, Sodium Chloride, L-Proline, Dipotassium Phosphate, L-Tryptophan, L-Arginine, L-Serine, Coconut Oil, Soybean Oil, L-Glutamic Acid, L-Methionine, Glycine, L-Cystine, Flaxseed Oil, Titanium Dioxide, Choline Bitartrate, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Sodium Citrate, Taurine, Ascorbic Acid, L-Carnitine, Ferrous Sulfate, Inositol, Vitamin E Acetate, Zinc Sulfate, Calcium Phosphate, Niacinamide, Copper Gluconate, D-Calcium Pantothenate, Vitamin D<sub>3</sub>, Vitamin A Palmitate, Vitamin K<sub>1</sub>, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-carotene, Chromium Chloride, Sodium Selenite, Pyridoxine Hydrochloride, Riboflavin, Potassium Iodide, Thiamin Mononitrate, Folic Acid, Sodium Molybdate, Vitamin B<sub>12</sub>.

**Contains:** Coconut Oil, Soybean Oil.

<sup>1</sup> Strauss KA et al. Mol Genet Metab. 2010;99:333-45.



## Complex MSD Amino Acid Blend

A valine-, leucine-, and isoleucine-free powdered medical food for the dietary management of maple syrup urine disease (MSUD) in children and adults.

### Main Features:

- Valine, leucine, and isoleucine free
- Amino acid profile specifically designed for MSUD; clinically researched in one study<sup>†</sup>
- Does not contain fat, carbohydrates, vitamins and minerals
- 40 calories per serving
- Provides 81 g of protein equivalent per 100 g of powder
- Unflavored
- Displacement: 0.48 mL/g

### Indications:

- Maple syrup urine disease (MSUD)

*For details on administration and household measurements, please see the end of this section.*

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|--------------|--------------------|----------------|-------------------|------------------|
| 5900         | 00847-0590-00      | B4155 or B9998 | 4 x 454 g (1 lb)  | 1466             |

**WIC<sup>‡</sup>:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

<sup>†</sup> Strauss KA et al. Mol Genet Metab. 2010;99:333-45.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g Protein Equivalent (1 scoop) |           | Amino Acids, g  | Per 10 g Protein Equivalent (1 scoop) |           |
|-----------------------|---------------------------------------|-----------|-----------------|---------------------------------------|-----------|
|                       | Per 100 g                             | Per 100 g |                 | Per 100 g                             | Per 100 g |
| Calories              | 323                                   | 40        | L-Alanine       | 8.72                                  | 1.08      |
| Protein Equivalent, g | 81                                    | 10        | L-Arginine      | 4.13                                  | 0.51      |
| Fat, g                | 0                                     | 0         | L-Asparagine    | 4.67                                  | 0.58      |
| Carbohydrate, g       | 0                                     | 0         | L-Cystine       | 1.80                                  | 0.22      |
|                       |                                       |           | L-Glutamic Acid | 2.79                                  | 0.35      |
|                       |                                       |           | L-Glutamine     | 23.12                                 | 2.87      |
|                       |                                       |           | Glycine         | 2.16                                  | 0.27      |
|                       |                                       |           | L-Histidine     | 5.76                                  | 0.71      |
|                       |                                       |           | L-Isoleucine    | Nil Added                             | Nil Added |
|                       |                                       |           | L-Leucine       | Nil Added                             | Nil Added |
|                       |                                       |           | L-Lysine        | 7.32                                  | 0.91      |
|                       |                                       |           | L-Methionine    | 2.38                                  | 0.30      |
|                       |                                       |           | L-Phenylalanine | 7.08                                  | 0.88      |
|                       |                                       |           | L-Proline       | 4.76                                  | 0.59      |
|                       |                                       |           | L-Serine        | 3.60                                  | 0.45      |
|                       |                                       |           | L-Threonine     | 5.83                                  | 0.72      |
|                       |                                       |           | L-Tryptophan    | 4.28                                  | 0.53      |
|                       |                                       |           | L-Tyrosine      | 7.08                                  | 0.88      |
|                       |                                       |           | L-Valine        | Nil Added                             | Nil Added |
|                       |                                       |           | L-Carnitine     | 0.19                                  | 0.02      |
|                       |                                       |           | Taurine         | 0.46                                  | 0.06      |

### Ingredients:

L-Glutamine, L-Lysine Acetate, L-Alanine, L-Phenylalanine, L-Tyrosine, L-Threonine, L-Histidine, L-Asparagine Monohydrate, L-Proline, L-Tryptophan, L-Arginine, L-Serine, L-Glutamic Acid, L-Methionine, Glycine, L-Cystine, Taurine, Silicon Dioxide, L-Carnitine.

**Note:** Must combine with an appropriate vitamin & mineral supplement when taken as the sole source of amino acid protein.



## MSUD Maxamum®

A valine-, leucine-, and isoleucine-free powdered medical food for the dietary management of maple syrup urine disease (MSUD) in older children and adults, including pregnant women and women of child-bearing age.

### Main Features:

- Valine, leucine, and isoleucine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- MSUD Maxamum provides 40 g of protein equivalent per 100 g of powder
- Available in orange flavor
- Contains < 1 g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg):  
Dilution  
1 to 7 750  
1 to 5 1090
- Displacement: 0.6 mL/g

### Indications:

- Maple syrup urine disease (MSUD)

*For details on administration and household measurements, please see the end of this section.*

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|--------------|--------------------|----------------|-------------------|------------------|
| 117789       | 49735-0177-89      | B4157 or B4162 | 6 x 454 g (1 lb)  | 1385             |

**WIC<sup>†</sup>: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g Protein Equivalent |                    | Vitamins                          | Per 10 g Protein Equivalent |                    |
|-----------------------|-----------------------------|--------------------|-----------------------------------|-----------------------------|--------------------|
|                       | Per 100 g                   | Protein Equivalent |                                   | Per 100 g                   | Protein Equivalent |
| Calories              | 305                         | 76                 | Vitamin A, IU (mcg RE)            | 2228 (669)                  | 557 (167)          |
| Protein Equivalent, g | 40                          | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 332 (8.3)                   | 83 (2.1)           |
| Fat, g                | <1                          | <0.25              | Vitamin E, IU (mg α-TE)           | 18.3 (12.3)                 | 4.6 (3.1)          |
| Carbohydrate, g       | 34                          | 8.5                | Vitamin K, mcg                    | 82                          | 21                 |
| <b>Amino Acids, g</b> |                             |                    | Thiamin, mg                       | 0.91                        | 0.23               |
| L-Alanine             | 2.4                         | 0.60               | Riboflavin, mg                    | 0.97                        | 0.24               |
| L-Arginine            | 4.1                         | 1.03               | Vitamin B <sub>6</sub> , mg       | 1.6                         | 0.4                |
| L-Aspartic Acid       | 3.4                         | 0.85               | Vitamin B <sub>12</sub> , mcg     | 3.1                         | 0.8                |
| L-Cystine             | 1.6                         | 0.40               | Niacin, mg                        | 5.7                         | 1.4                |
| L-Glutamic Acid       | 4.6                         | 1.15               | Folic Acid, mcg                   | 491                         | 123                |
| Glycine               | 3.7                         | 0.93               | Pantothenic Acid, mg              | 4.9                         | 1.2                |
| L-Histidine           | 2.3                         | 0.58               | Biotin, mcg                       | 24.5                        | 6.1                |
| L-Isoleucine          | Nil Added                   | Nil Added          | Vitamin C, mg                     | 62                          | 16                 |
| L-Leucine             | Nil Added                   | Nil Added          | Choline, mg                       | 430                         | 108                |
| L-Lysine              | 4.2                         | 1.05               | Inositol, mg                      | 80                          | 20                 |
| L-Methionine          | 0.99                        | 0.25               | <b>Minerals</b>                   |                             |                    |
| L-Phenylalanine       | 2.8                         | 0.70               | Calcium, mg                       | 1183                        | 296                |
| L-Proline             | 4.5                         | 1.13               | Phosphorus, mg                    | 1137                        | 284                |
| L-Serine              | 2.8                         | 0.70               | Magnesium, mg                     | 306                         | 77                 |
| L-Threonine           | 3.1                         | 0.78               | Iron, mg                          | 14.7                        | 3.7                |
| L-Tryptophan          | 1.3                         | 0.33               | Zinc, mg                          | 9                           | 2                  |
| L-Tyrosine            | 2.8                         | 0.70               | Manganese, mg                     | 1.8                         | 0.5                |
| L-Valine              | Nil Added                   | Nil Added          | Copper, mcg                       | 820                         | 205                |
| L-Carnitine           | 0.04                        | 0.01               | Iodine, mcg                       | 131                         | 33                 |
| Taurine               | 0.14                        | 0.04               | Molybdenum, mcg                   | 37                          | 9                  |
| L-Glutamine           | 0.32                        | 0.08               | Chromium, mcg                     | 26                          | 7                  |
|                       |                             |                    | Selenium, mcg                     | 58                          | 15                 |
|                       |                             |                    | Sodium, mg                        | 560                         | 140                |
|                       |                             |                    | Potassium, mg                     | 700                         | 175                |
|                       |                             |                    | Chloride, mg                      | 560                         | 140                |

### Ingredients:

Sugar, L-Lysine L-Glutamate, Corn Syrup Solids, Calcium Phosphate Dibasic, L-Proline, L-Arginine, Glycine, L-Aspartic Acid, L-Threonine, L-Phenylalanine, L-Tyrosine, L-Serine, Artificial Flavor, L-Histidine, L-Alanine, Citric Acid, Magnesium Acetate, L-Cystine, L-Tryptophan, Tripotassium Citrate, Choline Bitartrate, L-Methionine, Sodium Chloride, Soy Lecithin, Disodium Hydrogen Phosphate, Dipotassium Hydrogen Phosphate, L-Glutamine, Tricalcium Phosphate, L-Glutamic Acid, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Colors (Beta-Carotene, Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Contains:** Soy.



## MSUD Lophlex® LQ

A valine-, leucine-, and isoleucine-free\* ready-to-drink medical food containing amino acids, carbohydrates, vitamins, minerals and DHA, based on mixed fruit juices (from concentrate) with natural flavor; for the dietary management of proven maple syrup urine disease (MSUD) in individuals 4 years and older, including pregnant women and women of child-bearing age.

### Main Features:

- Valine, leucine, and isoleucine free
- Low volume; provides 20 g PE in just 4.2 fl oz (125 mL)
- Convenient ready-to-drink
- Based on fruit juices (from concentrate) with natural flavor - no artificial flavors
- Contains a balanced mixture of other essential and non-essential amino acids, carbohydrates, vitamins, minerals and DHA
- Provides 150 mg DHA per pouch
- Available in mixed berry blast flavor
- Osmolality (at 0.96 kcal/mL): 2460 mOsm/kg

### Indications:

- Maple syrup urine disease (MSUD)

*For details on administration, please see the end of this section.*

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging       | Calories Per Pouch |
|--------------|--------------------|----------------|-------------------------|--------------------|
| 82112        | 49735-0167-49      | B4157 or B4162 | 30 X 4.2 fl oz (125 mL) | 120                |

**WIC<sup>†</sup>: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

\*S9435 = For individuals who submit their bills to insurance on their own.

\*May contain traces of leucine, isoleucine and valine from fruit juice (from concentrate) at a level of <1.5 mg per 100 mL.

### Nutrition Information:

| Nutrients             | Per Pouch   | Per 10 g           | Vitamins                          | Per Pouch   | Per 10 g           |
|-----------------------|-------------|--------------------|-----------------------------------|-------------|--------------------|
|                       | (4.2 fl oz) | Protein Equivalent |                                   | (4.2 fl oz) | Protein Equivalent |
| Calories              | 120         | 60                 | Vitamin A, IU (mcg RE)            | 949 (285)   | 475 (143)          |
| Protein Equivalent, g | 20          | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 320 (8.0)   | 160 (4.0)          |
| Fat, g                | 0.44        | 0.22               | Vitamin E, IU (mg α-TE)           | 4.8 (3.2)   | 2.4 (1.6)          |
| DHA, mg               | 150         | 75                 | Vitamin K, mcg                    | 24.9        | 12.5               |
| Carbohydrate, g       | 9.3         | 4.7                | Thiamin, mg                       | 0.54        | 0.27               |
| Fiber, g              | 0.50        | 0.25               | Riboflavin, mg                    | 0.50        | 0.25               |
| <b>Amino Acids,</b>   |             |                    | Vitamin B <sub>6</sub> , mg       | 0.58        | 0.29               |
| L-Alanine             | 1.40        | 0.70               | Vitamin B <sub>12</sub> , mcg     | 1.8         | 0.90               |
| L-Arginine            | 1.90        | 0.95               | Niacin, mg                        | 7.1         | 3.6                |
| L-Aspartic Acid       | 1.45        | 0.73               | Folic Acid, mcg                   | 120         | 60.0               |
| L-Cystine             | 1.20        | 0.60               | Pantothenic Acid, mg              | 1.8         | 0.9                |
| Glycine               | 1.90        | 0.95               | Biotin, mcg                       | 53.4        | 26.7               |
| L-Histidine           | 1.00        | 0.50               | Vitamin C, mg                     | 17.8        | 8.9                |
| L-Isoleucine          | Trace*      | Trace*             | Choline, mg                       | 153         | 76.5               |
| L-Leucine             | Trace*      | Trace*             | Inositol, mg                      | 40.6        | 20.3               |
| L-Lysine              | 1.78        | 0.89               | <b>Mineral</b>                    |             |                    |
| L-Methionine          | 0.43        | 0.22               | Calcium, mg                       | 319         | 160                |
| L-Phenylalanine       | 1.18        | 0.59               | Phosphorus, mg                    | 244         | 122                |
| L-Proline             | 2.38        | 1.19               | Magnesium, mg                     | 96.3        | 48.2               |
| L-Serine              | 1.65        | 0.83               | Iron, mg                          | 5.1         | 2.6                |
| L-Threonine           | 1.30        | 0.65               | Zinc, mg                          | 3.8         | 1.9                |
| L-Tryptophan          | 0.53        | 0.27               | Manganese, mg                     | 0.56        | 0.28               |
| L-Tyrosine            | 2.00        | 1.00               | Copper, mcg                       | 563         | 282                |
| L-Valine              | Trace*      | Trace*             | Iodine, mcg                       | 56.3        | 28.2               |
| L-Carnitine           | 0.01        | 0.01               | Molybdenum, mcg                   | 25.0        | 12.5               |
| Taurine               | 0.06        | 0.03               | Chromium, mcg                     | 10.8        | 5.4                |
|                       |             |                    | Selenium, mcg                     | 26.8        | 13.4               |
|                       |             |                    | Sodium, mg                        | <25.0       | <12.5              |
|                       |             |                    | Potassium, mg                     | 90          | 45                 |
|                       |             |                    | Chloride, mg                      | <25.0       | <12.5              |

### Ingredients:

Water, Apple Juice from Concentrate (34.1%), Grape Juice from Concentrate (6.9%), Blackcurrant Juice from Concentrate (2.5%), L-Lysine Acetate, L-Proline, Citric Acid, L-Tyrosine, L-Arginine, Glycine, L-Serine, L-Aspartic Acid, L-Alanine, L-Threonine, Corn Syrup Solids, L-Cystine, L-Phenylalanine, Dicalcium Phosphate, L-Histidine, Elderberry Juice from Concentrate (0.6%), Maltodextrin, Magnesium Acetate, N-Acetyl L-Methionine, L-Tryptophan, Choline Bitartrate, *C. Cohnii Oil*\*, Sugar, Microcrystalline Cellulose, Natural Flavor, Fruit Concentrate (Apple, Blackcurrant, Radish), L-Ascorbic Acid, Taurine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate (preservative to delay spoilage), Artificial Sweetener: Sucralose, Ferrous Lactate, Artificial Sweetener: Acesulfame Potassium, Sodium Benzoate (preservative to delay spoilage), Zinc Sulfate, L-Carnitine, Niacinamide, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Mixed Tocopherols, Sodium Molybdate, D-Biotin, Sodium Selenite, Chromium Chloride, Phylloquinone, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Contains:** 44.1% juice.

\*A Source of Docosahexaenoic Acid (DHA).



## IVA Anamix® Early Years

A leucine-free powdered infant formula with iron, for the dietary management of isovaleric acidemia (IVA). Contains DHA and ARA, and a unique blend of prebiotic fiber.

### Main Features:

- Leucine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic fiber blend
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent per 100 g of powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg  
Based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

### Indications:

- Isovaleric acidemia
- Other proven disorders of leucine metabolism

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code* | Product Packaging | Calories Per Can |
|--------------|--------------------|-------------|-------------------|------------------|
| 90211        | 49735-0102-11      | B4162       | 6 x 400 g (14 oz) | 1892             |

**WIC<sup>+</sup>: Contact your state WIC office to determine availability.**

For more reimbursement information see Resources.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g  |                    | Vitamins                          | Per 10 g   |                    |
|-----------------------|-----------|--------------------|-----------------------------------|------------|--------------------|
|                       | Per 100 g | Protein Equivalent |                                   | Per 100 g  | Protein Equivalent |
| Calories              | 473       | 350                | Vitamin A, IU (mcg RE)            | 1305 (392) | 967 (290)          |
| Protein Equivalent, g | 13.5      | 10.0               | Vitamin D <sub>3</sub> , IU (mcg) | 348 (8.7)  | 258 (6.4)          |
| Fat, g                | 23.0      | 17.0               | Vitamin E, IU (mg α-TE)           | 10.9 (7.3) | 8.1 (5.4)          |
| Saturated, g          | 7.5       | 5.6                | Vitamin K, mcg                    | 38.0       | 28.1               |
| Monounsaturated, g    | 9.4       | 7.0                | Thiamin, mcg                      | 640        | 474                |
| Polyunsaturated, g    | 5.0       | 3.7                | Riboflavin, mcg                   | 500        | 370                |
| DHA, mg               | 70.0      | 51.9               | Vitamin B <sub>6</sub> , mcg      | 500        | 370                |
| ARA, mg               | 140       | 104                | Vitamin B <sub>12</sub> , mcg     | 1.2        | 0.89               |
| Linoleic Acid, mg     | 3500      | 2593               | Niacin, mcg                       | 2200       | 1630               |
| Carbohydrate, g       | 53.0      | 39.3               | Folic Acid, mcg                   | 55.0       | 40.7               |
| Fiber, g              | 5.3       | 3.9                | Pantothenic Acid, mcg             | 2800       | 2074               |
| GOS, g                | 4.7       | 3.5                | Biotin, mcg                       | 18.2       | 13.5               |
| FOS, g                | 0.55      | 0.41               | Vitamin C, mg                     | 49.0       | 36.3               |
| <b>Amino Acids, g</b> |           |                    | Choline, mg                       | 91.0       | 67.4               |
| L-Alanine             | 0.74      | 0.55               | Inositol, mg                      | 98.0       | 72.6               |
| L-Arginine            | 1.21      | 0.90               | <b>Minerals</b>                   |            |                    |
| L-Aspartic Acid       | 1.02      | 0.76               | Calcium, mg                       | 371        | 275                |
| L-Cystine             | 0.44      | 0.33               | Phosphorus, mg                    | 270        | 200                |
| L-Glutamic Acid       | 1.35      | 1                  | Magnesium, mg                     | 52.5       | 38.9               |
| L-Glutamine           | 0.11      | 0.08               | Iron, mg                          | 7.3        | 5.4                |
| Glycine               | 2.18      | 1.6                | Zinc, mg                          | 5.2        | 3.9                |
| L-Histidine           | 0.7       | 0.52               | Manganese, mcg                    | 390        | 289                |
| L-Isoleucine          | 0.42      | 0.31               | Copper, mcg                       | 390        | 289                |
| L-Leucine             | Nil Added | Nil Added          | Iodine, mcg                       | 82.5       | 61.1               |
| L-Lysine              | 1.06      | 0.79               | Molybdenum, mcg                   | 10.9       | 8.1                |
| L-Methionine          | 0.3       | 0.22               | Chromium, mcg                     | 12.5       | 9.3                |
| L-Phenylalanine       | 0.82      | 0.61               | Selenium, mcg                     | 14.1       | 10.4               |
| L-Proline             | 2.19      | 1.6                | Sodium, mg                        | 171        | 127                |
| L-Serine              | 0.68      | 0.50               | Potassium, mg                     | 454        | 336                |
| L-Threonine           | 0.72      | 0.53               | Chloride, mg                      | 321        | 238                |
| L-Tryptophan          | 0.27      | 0.20               |                                   |            |                    |
| L-Tyrosine            | 0.8       | 0.59               |                                   |            |                    |
| L-Valine              | 0.48      | 0.36               |                                   |            |                    |
| L-Carnitine           | 0.01      | 0.01               |                                   |            |                    |
| Taurine               | 0.02      | 0.01               |                                   |            |                    |

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-Hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (GOS) Dried Syrup (from milk), L-Lysine L-Glutamate, L-Proline, Glycine, L-Arginine, Tricalcium Phosphate, L-Aspartic Acid, CAEM (an emulsifier), L-Tyrosine, L-Phenylalanine, L-Alanine, L-Threonine, L-Histidine, L-Serine, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, L-Valine, L-Cystine, L-Isoleucine, Sodium Phosphate Dibasic, Magnesium Acetate, *M. Alpina* Oil\*, L-Methionine, L-Glutamic Acid, L-Tryptophan, Choline Bitartrate, *C. Cohnii* Oil\*\*, L-Glutamine, Sodium Chloride, M-Inositol, L-Ascorbic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Contains:** Soy Oil, Coconut Oil, Milk.

\*A source of Arachidonic Acid (ARA)

\*\*A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL



## IVA Anamix® Next

A leucine-free powdered medical food for the dietary management of isovaleric acidemia in individuals over 1 year of age.

### Main Features:

- Leucine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate (including a multi-fiber blend), fat (including DHA), vitamins, minerals, and trace elements
- Provides 28 g protein equivalent and 12.5 g fat per 100 g of powder
- Available in Plain
- Osmolality (at 1.1 kcal/mL): 1220 mOsm/kg  
Based on dilution of 36 g powder (approx. 4 scoops) to 3.5 fl oz (100 mL) water
- Displacement: 0.72 mL/g

### Indications:

- Isovaleric acidemia

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|--------------|--------------------|----------------|-------------------|------------------|
| 89471        | 49735-0194-71      | B4157 or B4162 | 6 x 400 g (14 oz) | 1508             |

**WIC+: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g Protein Equivalent |                    | Vitamins                          | Per 10 g Protein Equivalent |                    |
|-----------------------|-----------------------------|--------------------|-----------------------------------|-----------------------------|--------------------|
|                       | Per 100 g                   | Protein Equivalent |                                   | Per 100 g                   | Protein Equivalent |
| Calories              | 377                         | 134.6              | Vitamin A, IU (mcg R.E.)          | 1748 (525)                  | 628 (187.5)        |
| Protein Equivalent, g | 28                          | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 1052 (26.3)                 | 379 (9.4)          |
| Fat, g                | 12.5                        | 4.5                | Vitamin E, IU (mg- $\alpha$ -TE)  | 15.6 (10.5)                 | 5.6 (3.8)          |
| Saturated, g          | 2.0                         | 0.71               | Vitamin K, mcg                    | 17.5                        | 6.3                |
| Monounsaturated, g    | 8.2                         | 2.9                | Thiamin, mg                       | 1.2                         | 0.43               |
| Polyunsaturated, g    | 1.8                         | 0.64               | Riboflavin, mg                    | 0.91                        | 0.33               |
| DHA, mg               | 180                         | 64                 | Vitamin B <sub>6</sub> , mg       | 0.91                        | 0.33               |
| Carbohydrate, g       | 41.2                        | 14.7               | Vitamin B <sub>12</sub> , mcg     | 1.6                         | 0.57               |
| Fiber, g              | 11.2                        | 4.0                | Niacin, mg                        | 2.5                         | 0.89               |
| Soluble, g            | 8.0                         | 2.9                | Folic Acid, mcg                   | 263                         | 93.9               |
| Insoluble, g          | 3.2                         | 1.1                | Pantothenic Acid, mg              | 5.3                         | 1.9                |
| <b>Amino Acids, g</b> |                             |                    | Biotin, mcg                       | 14                          | 5                  |
| L-Alanine             | 1.35                        | 0.48               | Vitamin C, mg                     | 52.5                        | 18.8               |
| L-Arginine            | 2.35                        | 0.84               | Choline, mg                       | 280                         | 100                |
| L-Aspartic Acid       | 2.0                         | 0.71               | Inositol, mg                      | 70                          | 25                 |
| L-Cystine             | 0.94                        | 0.34               | <b>Minerals</b>                   |                             |                    |
| L-Glutamic acid       | 1.88                        | 0.67               | Calcium, mg                       | 1225                        | 437.5              |
| L-Glutamine           | 3.16                        | 1.1                | Phosphorus, mg                    | 801                         | 286.1              |
| Glycine               | 4.6                         | 1.6                | Magnesium, mg                     | 140                         | 50                 |
| L-Histidine           | 1.4                         | 0.50               | Iron, mg                          | 12.5                        | 4.5                |
| L-Isoleucine          | 0.92                        | 0.33               | Zinc, mg                          | 6.1                         | 2.2                |
| L-Leucine             | Nil Added                   | Nil Added          | Manganese, mg                     | 1.2                         | 0.4                |
| L-Lysine              | 2.2                         | 0.79               | Copper, mcg                       | 700                         | 250                |
| L-Methionine          | 0.64                        | 0.23               | Iodine, mcg                       | 174                         | 62.1               |
| L-Phenylalanine       | 1.7                         | 0.61               | Molybdenum, mcg                   | 31.9                        | 11.4               |
| L-Proline             | 4.1                         | 1.5                | Chromium, mcg                     | 12.8                        | 4.6                |
| L-Serine              | 1.5                         | 0.52               | Selenium, mcg                     | 35.3                        | 12.6               |
| L-Threonine           | 1.5                         | 0.54               | Sodium, mg                        | 350                         | 125                |
| L-Tryptophan          | 0.58                        | 0.21               | Potassium, mg                     | 556                         | 198.6              |
| L-Tyrosine            | 1.7                         | 0.61               | Chloride, mg                      | 508                         | 181.4              |
| L-Valine              | 1.0                         | 0.37               |                                   |                             |                    |
| L-Carnitine           | 0.02                        | 0.01               |                                   |                             |                    |
| Taurine               | 0.06                        | 0.02               |                                   |                             |                    |

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), Glycine, L-Proline, Calcium Phosphate Dibasic, Fructo-oligosaccharides, L-Glutamine, Inulin, L-Lysine Acetate, Corn Starch, Microcrystalline Cellulose, L-Arginine, Artificial Flavor, Magnesium L-Aspartate, Gum Arabic, L-Glutamic Acid, L-Tyrosine, L-Phenylalanine, Tripotassium Citrate, L-Threonine, L-Serine, L-Histidine, L-Alanine, L-Valine, Trisodium Citrate, L-Cystine, L-Isoleucine, Maltodextrin, Choline Bitartrate, Calcium Chloride, L-Methionine, L-Tryptophan, CAEM (an emulsifier), *C. Cohnii Oil*<sup>†</sup>, L-Aspartic Acid, Sodium Chloride, L-Ascorbic Acid, M-Inositol, Soy Fiber, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Ascorbyl Palmitate, Potassium iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-alpha Tocopherol, Vitamin D<sub>3</sub>, Phylloquinone, D-Biotin, Cyanocobalamin.

**Contains:** Coconut Oil, Soy.

<sup>†</sup>A source of Docosahexaenoic Acid (DHA)





## XLeu Maxamum®

A leucine-free powdered medical food for the dietary management of isovaleric acidemia and other proven disorders of leucine metabolism in older children and adults, including pregnant women and women of child-bearing age.

### Main Features:

- Leucine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements (including iron, selenium and chromium)
- Age-appropriate DRI formulation
- XLeu Maxamum provides 40 g of protein equivalent per 100 g of powder
- Available in orange flavor
- Contains <1 g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg):  
Dilution  
1 to 7 800  
1 to 5 1120
- Displacement: 0.6 mL/g

### Indications:

- Isovaleric acidemia
- Other proven disorders of leucine metabolism

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|--------------|--------------------|----------------|-------------------|------------------|
| 117790       | 49735-0177-90      | B4157 or B4162 | 6 x 454 g (1 lb)  | 1385             |

**WIC<sup>†</sup>: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 100 g | Per 10 g Protein Equivalent | Vitamins                          |                             |
|-----------------------|-----------|-----------------------------|-----------------------------------|-----------------------------|
|                       |           |                             | Per 100 g                         | Per 10 g Protein Equivalent |
| Calories              | 305       | 76                          | Vitamin A, IU (mcg RE)            | 2228 (669) 557 (167)        |
| Protein Equivalent, g | 40        | 10                          | Vitamin D <sub>3</sub> , IU (mcg) | 332 (8.3) 83 (2.1)          |
| Fat, g                | <1        | <0.25                       | Vitamin E, IU (mg α-TE)           | 18.3 (12.3) 4.6 (3.1)       |
| Carbohydrate, g       | 34        | 8.5                         | Vitamin K, mcg                    | 82 21                       |
| <b>Amino Acids, g</b> |           |                             | Thiamin, mg                       | 0.91 0.23                   |
| L-Alanine             | 2.2       | 0.55                        | Riboflavin, mg                    | 0.97 0.24                   |
| L-Arginine            | 3.6       | 0.90                        | Vitamin B <sub>6</sub> , mg       | 1.6 0.4                     |
| L-Aspartic Acid       | 3         | 0.75                        | Vitamin B <sub>12</sub> , mcg     | 3.1 0.8                     |
| L-Cystine             | 1.3       | 0.33                        | Niacin, mg                        | 5.7 1.4                     |
| L-Glutamic Acid       | 3.9       | 0.98                        | Folic Acid, mcg                   | 491 123                     |
| Glycine               | 6.3       | 1.58                        | Pantothenic Acid, mg              | 4.9 1.2                     |
| L-Histidine           | 2.1       | 0.53                        | Biotin, mcg                       | 24.5 6.1                    |
| L-Isoleucine          | 1.2       | 0.30                        | Vitamin C, mg                     | 62 16                       |
| L-Leucine             | Nil Added | Nil Added                   | Choline, mg                       | 430 108                     |
| L-Lysine              | 3         | 0.75                        | Inositol, mg                      | 80 20                       |
| L-Methionine          | 0.86      | 0.22                        | <b>Minerals</b>                   |                             |
| L-Phenylalanine       | 2.3       | 0.58                        | Calcium, mg                       | 1183 296                    |
| L-Proline             | 6.3       | 1.58                        | Phosphorus, mg                    | 1137 284                    |
| L-Serine              | 1.9       | 0.48                        | Magnesium, mg                     | 306 77                      |
| L-Threonine           | 2.1       | 0.53                        | Iron, mg                          | 14.7 3.7                    |
| L-Tryptophan          | 0.79      | 0.20                        | Zinc, mg                          | 9 2                         |
| L-Tyrosine            | 2.3       | 0.58                        | Manganese, mg                     | 1.8 0.5                     |
| L-Valine              | 1.4       | 0.35                        | Iodine, mcg                       | 131 33                      |
| L-Carnitine           | 0.04      | 0.01                        | Molybdenum, mcg                   | 37 9                        |
| Taurine               | 0.14      | 0.04                        | Chromium, mcg                     | 26 7                        |
| L-Glutamine           | 0.32      | 0.08                        | Selenium, mcg                     | 58 15                       |
|                       |           |                             | Sodium, mg                        | 560 140                     |
|                       |           |                             | Potassium, mg                     | 700 175                     |
|                       |           |                             | Chloride, mg                      | 560 140                     |

### Ingredients:

Sugar, L-Lysine L-Glutamate, L-Proline, Glycine, Corn Syrup Solids, Calcium Phosphate Dibasic, L-Arginine, L-Aspartic Acid, L-Phenylalanine, Artificial Flavor, L-Tyrosine, L-Alanine, L-Threonine, Citric Acid, L-Histidine, L-Serine, Magnesium Acetate, L-Valine, L-Cystine, L-Isoleucine, Tripotassium Citrate, Choline Bitartrate, Sodium Chloride, L-Methionine, L-Glutamic Acid, L-Tryptophan, Soy Lecithin, Disodium Hydrogen Phosphate, Dipotassium Hydrogen Phosphate, L-Glutamine, Tricalcium Phosphate, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Colors (Beta-Carotene, Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Contains:** Soy.



## GA-1 Anamix® Early Years

A lysine-free, low tryptophan powdered infant formula with iron, for the dietary management of glutaric aciduria type 1 (GA-1). Contains DHA and ARA, and a unique blend of prebiotic fiber.

### Main Features:

- Lysine-free, low tryptophan powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic fiber blend
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent per 100 g of powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg  
Based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

### Indications:

- Glutaric acidemia type I

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code* | Product Packaging | Calories Per Can |
|--------------|--------------------|-------------|-------------------|------------------|
| 90217        | 49735-0102-17      | B4162       | 6 x 400 g (14 oz) | 1892             |

**WIC†: Contact your state WIC office to determine availability.** For more reimbursement information see Resources.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g  |                    | Vitamins                          | Per 10 g   |                    |
|-----------------------|-----------|--------------------|-----------------------------------|------------|--------------------|
|                       | Per 100 g | Protein Equivalent |                                   | Per 100 g  | Protein Equivalent |
| Calories              | 473       | 350                | Vitamin A, IU (mcg RE)            | 1305 (392) | 967 (290)          |
| Protein Equivalent, g | 13.5      | 10.0               | Vitamin D <sub>3</sub> , IU (mcg) | 348 (8.7)  | 258 (6.4)          |
| Fat, g                | 23.0      | 17.0               | Vitamin E, IU (mg α-TE)           | 10.9 (7.3) | 8.1 (5.4)          |
| Saturated, g          | 7.5       | 5.6                | Vitamin K, mcg                    | 38.0       | 28.1               |
| Monounsaturated, g    | 9.4       | 7.0                | Thiamin, mcg                      | 640        | 474                |
| Polysaturated, g      | 5.0       | 3.7                | Riboflavin, mcg                   | 500        | 370                |
| DHA, mg               | 70.0      | 51.9               | Vitamin B <sub>6</sub> , mcg      | 500        | 370                |
| ARA, mg               | 140       | 104                | Vitamin B <sub>12</sub> , mcg     | 1.2        | 0.89               |
| Linoleic Acid, mg     | 3500      | 2593               | Niacin, mcg                       | 2200       | 1630               |
| Carbohydrate, g       | 53.0      | 39.3               | Folic Acid, mcg                   | 55.0       | 40.7               |
| Fiber, g              | 5.3       | 3.9                | Pantothenic Acid, mcg             | 2800       | 2074               |
| GOS, g                | 4.7       | 3.5                | Biotin, mcg                       | 18.2       | 13.5               |
| FOS, g                | 0.55      | 0.41               | Vitamin C, mg                     | 49.0       | 36.3               |
| <b>Amino Acids, g</b> |           |                    | Choline, mg                       | 91.0       | 67.4               |
| L-Alanine             | 0.68      | 0.50               | Inositol, mg                      | 98.0       | 72.6               |
| L-Arginine            | 1.18      | 0.87               | <b>Minerals</b>                   |            |                    |
| L-Aspartic Acid       | 0.98      | 0.73               | Calcium, mg                       | 371        | 275                |
| L-Cystine             | 0.45      | 0.33               | Phosphorus, mg                    | 270        | 200                |
| L-Glutamic Acid       | 1.33      | 0.99               | Magnesium, mg                     | 52.5       | 38.9               |
| L-Glutamine           | 0.11      | 0.08               | Iron, mg                          | 7.3        | 5.4                |
| Glycine               | 1.06      | 0.79               | Zinc, mg                          | 5.2        | 3.9                |
| L-Histidine           | 0.68      | 0.50               | Manganese, mcg                    | 390        | 289                |
| L-Isoleucine          | 1.06      | 0.79               | Copper, mcg                       | 390        | 289                |
| L-Leucine             | 1.81      | 1.3                | Iodine, mcg                       | 82.5       | 61.1               |
| L-Lysine              | Nil Added | Nil Added          | Molybdenum, mcg                   | 10.9       | 8.1                |
| L-Methionine          | 0.29      | 0.21               | Chromium, mcg                     | 12.5       | 9.3                |
| L-Phenylalanine       | 0.8       | 0.59               | Selenium, mcg                     | 14.1       | 10.4               |
| L-Proline             | 1.29      | 0.96               | Sodium, mg                        | 171        | 127                |
| L-Serine              | 0.8       | 0.59               | Potassium, mg                     | 454        | 336                |
| L-Threonine           | 0.89      | 0.66               | Chloride, mg                      | 321        | 238                |
| L-Tryptophan          | 0.09      | 0.07               |                                   |            |                    |
| L-Tyrosine            | 0.8       | 0.59               |                                   |            |                    |
| L-Valine              | 1.16      | 0.86               |                                   |            |                    |
| L-Carnitine           | 0.01      | 0.01               |                                   |            |                    |
| Taurine               | 0.02      | 0.01               |                                   |            |                    |

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (GOS) Dried Syrup (from milk), L-Leucine, L-Glutamic Acid, L-Proline, L-Arginine, L-Valine, L-Isoleucine, Tricalcium Phosphate, Glycine, L-Aspartic Acid, CAEM (an emulsifier), L-Threonine, L-Tyrosine, L-Phenylalanine, L-Serine, L-Histidine, L-Alanine, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, L-Cystine, Sodium Phosphate Dibasic, Magnesium Acetate, *M. Alpina* Oil\*, L-Methionine, Choline Bitartrate, *C. Cohnii* Oil\*\*, L-Glutamine, Sodium Chloride, M-Inositol, L-Ascorbic Acid, L-Tryptophan, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Nicotinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin

**Contains:** Soy Oil, Coconut Oil, Milk.

\*A source of Arachidonic Acid (ARA)

\*\*A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL



## GlutarAde™ Junior GA-1 Drink Mix

A lysine-free and low tryptophan powdered medical food for the dietary management of glutaric aciduria type 1 (GA-1) in young children.

### Main Features:

- Lysine free
- Amino acid profile specifically designed for GA-1; clinically researched in one study<sup>†</sup>
- Contains arginine and 60 mg of tryptophan per 100 g powder
- Contains a source of Omega-3 fatty acids
- Complete with vitamins and minerals
- Plain flavor
- Provides 10 g protein equivalent per 100 g powder
- Displacement: 0.6 mL/g

### Indications:

- Glutaric acidemia type I

*For details on administration and household measurements, please see the end of this section.*

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging   | Calories Per Can |
|--------------|--------------------|----------------|---------------------|------------------|
| 7510         | 00847-0751-02      | B4157 or B4162 | 4 x 400 g (14.1 oz) | 1640             |

**WIC<sup>†</sup>: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 100 g | Per 100 kcal | Vitamins                          | Per 100 g  | Per 100 kcal |
|-----------------------|-----------|--------------|-----------------------------------|------------|--------------|
| Calories              | 410       | 100          | Vitamin A, IU (mcg RE)            | 1373 (412) | 335 (101)    |
| Protein Equivalent, g | 10        | 2.5          | Vitamin D <sub>3</sub> , IU (mcg) | 525 (13.1) | 128 (3.2)    |
| Fat, g                | 10        | 2.5          | Vitamin E, IU (mg α-TE)           | 8.5 (5.7)  | 2.1 (1.4)    |
| Saturated, g          | 2.2       | 0.55         | Vitamin K, mcg                    | 34         | 8.3          |
| Monounsaturated, g    | 5.2       | 1.3          | Thiamin, mg                       | 0.83       | 0.2          |
| Polyunsaturated, g    | 2.6       | 0.63         | Riboflavin, mg                    | 0.69       | 0.17         |
| Linoleic Acid, mg     | 1487      | 363          | Vitamin B <sub>6</sub> , mg       | 0.66       | 0.16         |
| α-Linolenic Acid, mg  | 815       | 199          | Vitamin B <sub>12</sub> , mcg     | 1.4        | 0.35         |
| Carbohydrate, g       | 69        | 17           | Niacin, mg                        | 6.6        | 1.6          |
| <b>Amino Acids, g</b> |           |              | Folic Acid, mcg                   | 150        | 37           |
| L-Alanine             | 0.48      | 0.12         | Pantothenic Acid, mg              | 6          | 1.5          |
| L-Arginine            | 1.08      | 0.26         | Biotin, mcg                       | 31         | 7.6          |
| L-Asparagine          | 0.72      | 0.18         | Vitamin C, mg                     | 56         | 13.6         |
| L-Cystine             | 0.18      | 0.04         | Choline, mg                       | 213        | 52           |
| L-Glutamic Acid       | 0.36      | 0.09         | Inositol, mg                      | 125        | 30           |
| L-Glutamine           | 1.80      | 0.44         | <b>Minerals</b>                   |            |              |
| Glycine               | 0.24      | 0.06         | Calcium, mg                       | 460        | 112          |
| L-Histidine           | 0.36      | 0.09         | Phosphorus, mg                    | 400        | 97           |
| L-Isoleucine          | 0.84      | 0.21         | Magnesium, mg                     | 60         | 14.6         |
| L-Leucine             | 1.38      | 0.34         | Iron, mg                          | 8          | 2            |
| L-Lysine              | Nil Added | Nil Added    | Zinc, mg                          | 7          | 1.6          |
| L-Methionine          | 0.41      | 0.10         | Manganese, mg                     | 0.43       | 0.1          |
| L-Ornithine           | 0.24      | 0.06         | Copper, mcg                       | 500        | 122          |
| L-Phenylalanine       | 0.64      | 0.16         | Iodine, mcg                       | 90         | 22           |
| L-Proline             | 0.60      | 0.15         | Molybdenum, mcg                   | 18         | 4.4          |
| L-Serine              | 0.24      | 0.06         | Chromium, mcg                     | 12         | 2.9          |
| L-Threonine           | 0.64      | 0.16         | Selenium, mcg                     | 40         | 9.7          |
| L-Tryptophan          | 0.06      | 0.01         | Sodium, mg                        | 221        | 54           |
| L-Tyrosine            | 0.72      | 0.18         | Potassium, mg                     | 589        | 144          |
| L-Valine              | 0.96      | 0.23         | Chloride, mg                      | 332        | 81           |
| L-Carnitine           | 0.03      | 0.01         |                                   |            |              |
| Taurine               | 0.06      | 0.01         |                                   |            |              |

### Ingredients:

Corn Syrup Solids, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Natural and Artificial Flavor. Contains 2% or less of the following: L-Glutamine, L-Leucine, Tricalcium Phosphate, L-Arginine, L-Valine, Coconut Oil, Soybean Oil, L-Isoleucine, L-Asparagine Monohydrate, Dipotassium Phosphate, Flaxseed Oil, L-Tyrosine, L-Phenylalanine, L-Threonine, L-Proline, Choline Bitartrate, Potassium Chloride, L-Ornithine-Alpha Ketoglutarate, L-Alanine, Magnesium Phosphate, L-Methionine, L-Glutamic Acid, L-Histidine, Glycine, L-Serine, Ascorbyl Palmitate, Sodium Citrate, Mixed Tocopherols, Rosemary Extract, L-Cystine, Sodium Chloride, Inositol, Silicon Dioxide, Ascorbic Acid, L-Tryptophan, Taurine, Ferrous Sulfate, Calcium Phosphate, L-Carnitine, Zinc Sulfate, Vitamin E Acetate, Niacinamide, Calcium D-Pantothenate, Mono- and Diglycerides, Vitamin A Palmitate, Vitamin D<sub>3</sub>, Copper Gluconate, Vitamin K<sub>1</sub>, D-Biotin, Manganese Sulfate, Sodium Selenite, Thiamin Mononitrate, Pyridoxine Hydrochloride, Riboflavin, Potassium Iodide, Chromium Chloride, Folic Acid, Vitamin B<sub>12</sub>, Sodium Molybdate.

**Contains:** Coconut Oil, Soybean Oil.

<sup>†</sup> Strauss KA, et al. Mol Genet Metab. 2011.



## GlutarAde™ Essential GA-1 Drink Mix

A lysine-free and low tryptophan powdered medical food for the dietary management of glutaric aciduria type 1 (GA-1) in children and adults, including pregnant women and women of child bearing age.

### Main Features:

- Lysine free
- Amino acid profile specifically designed for GA-1; clinically researched in one study<sup>1</sup>
- Contains arginine and 150 mg of tryptophan per 100 g powder
- Contains a source of Omega-3 fatty acids
- Provides 25 g protein equivalent per 100 g powder
- Vanilla flavor
- Osmolality (at 0.64 kcal/mL): 797 mOsm/kg  
Based on dilution of 40 g powder (1 scoop) to 7 fl oz (210 mL) water
- Displacement: 0.75 mL/g

### Indications:

- Glutaric acidemia type I

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|--------------|--------------------|----------------|-------------------|------------------|
| 7542         | 00847-0754-22      | B4157 or B4162 | 4 x 454 g (1lb)   | 1748             |

**WIC<sup>+</sup>: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\*S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g Protein Equivalent |           | Vitamins                          | Per 10 g Protein Equivalent |           |
|-----------------------|-----------------------------|-----------|-----------------------------------|-----------------------------|-----------|
|                       | Per 100 g                   | (1scoop)  |                                   | Per 100 g                   | (1scoop)  |
| Calories              | 385                         | 154       | Vitamin A, IU (mcg RE)            | 1700 (637)                  | 680 (255) |
| Protein Equivalent, g | 25                          | 10        | (25% as beta-carotene)            |                             |           |
| Fat, g                | 13                          | 5         | Vitamin D <sub>3</sub> , IU (mcg) | 600 (15)                    | 240 (6)   |
| Saturated, g          | 3.1                         | 1.2       | Vitamin E, IU (mg α-TE)           | 19.1 (12.8)                 | 7.6 (5.1) |
| Monounsaturated, g    | 6.9                         | 2.8       | Vitamin K, mcg                    | 70                          | 28        |
| Polyunsaturated, g    | 2.9                         | 1.2       | Thiamin, mg                       | 1.5                         | 0.6       |
| Linoleic Acid, mg     | 1936                        | 774       | Riboflavin, mg                    | 1.5                         | 0.6       |
| α-Linolenic Acid, mg  | 730                         | 292       | Vitamin B <sub>6</sub> , mg       | 1.4                         | 0.56      |
| Carbohydrate, g       | 45                          | 18        | Vitamin B <sub>12</sub> , mcg     | 3                           | 1.2       |
| Fiber, g              | 3.9                         | 1.5       | Niacin, mg                        | 15.5                        | 6.2       |
| <b>Amino Acids, g</b> |                             |           | Folic Acid, mcg                   | 300                         | 120       |
| L-Alanine             | 1.20                        | 0.48      | Pantothenic Acid, mg              | 7.5                         | 3         |
| L-Arginine            | 2.7                         | 1.08      | Biotin, mcg                       | 30                          | 12        |
| L-Asparagine          | 1.8                         | 0.72      | Vitamin C, mg                     | 60                          | 24        |
| L-Cystine             | 0.45                        | 0.18      | Choline, mg                       | 313                         | 125       |
| L-Glutamic Acid       | 0.9                         | 0.36      | Inositol, mg                      | 50                          | 20        |
| L-Glutamine           | 4.51                        | 1.8       | <b>Minerals:</b>                  |                             |           |
| Glycine               | 0.6                         | 0.24      | Calcium, mg                       | 1257                        | 503       |
| L-Histidine           | 0.9                         | 0.36      | Phosphorus, mg                    | 787                         | 315       |
| L-Isoleucine          | 2.1                         | 0.84      | Magnesium, mg                     | 201                         | 80        |
| L-Leucine             | 3.46                        | 1.38      | Iron, mg                          | 11.3                        | 4.5       |
| L-Lysine              | Nil Added                   | Nil Added | Zinc, mg                          | 10                          | 4         |
| L-Methionine          | 1.02                        | 0.41      | Manganese, mg                     | 1.9                         | 0.76      |
| L-Ornithine           | 0.6                         | 0.24      | Copper, mcg                       | 1000                        | 400       |
| L-Phenylalanine       | 1.59                        | 0.64      | Iodine, mcg                       | 115                         | 46        |
| L-Proline             | 1.5                         | 0.6       | Molybdenum, mcg                   | 31                          | 12.4      |
| L-Serine              | 0.6                         | 0.24      | Chromium, mcg                     | 21                          | 8.6       |
| L-Threonine           | 1.59                        | 0.64      | Selenium, mcg                     | 63                          | 25        |
| L-Tryptophan          | 0.15                        | 0.06      | Sodium, mg                        | 384                         | 154       |
| L-Tyrosine            | 1.8                         | 0.72      | Potassium, mg                     | 874                         | 350       |
| L-Valine              | 2.4                         | 0.96      | Chloride, mg                      | 475                         | 190       |
| L-Carnitine           | 0.04                        | 0.01      |                                   |                             |           |
| Taurine               | 0.15                        | 0.06      |                                   |                             |           |

### Ingredients:

Sugar, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Dextrin, L-Glutamine, L-Leucine, Natural and Artificial Flavor, L-Arginine, Dicalcium Phosphate, L-Valine, L-Isoleucine, L-Asparagine Monohydrate. Contains 2% or less of the following: L-Tyrosine, Tricalcium Phosphate, L-Phenylalanine, L-Threonine, L-Proline, Potassium Citrate, L-Ornithine-Alpha Ketoglutarate, L-Alanine, Coconut Oil, Soybean Oil, L-Methionine, Sodium Citrate, Potassium Chloride, L-Glutamic Acid, L-Histidine, Choline Bitartrate, Glycine, L-Serine, L-Cystine, Flaxseed Oil, Magnesium Oxide, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Silicon Dioxide, L-Tryptophan, Taurine, Sodium Chloride, Ascorbic Acid, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Niacinamide, Calcium Phosphate, Zinc Oxide, Sucralose, D-Calcium Pantothenate, Copper Gluconate, Vitamin K<sub>1</sub>, Vitamin D<sub>3</sub>, Manganese Sulfate, Vitamin A Palmitate, Mono- and Diglycerides, D-Biotin, Beta-carotene, Pyridoxine Hydrochloride, Potassium Iodide, Riboflavin, Thiamin Mononitrate, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate.

**Contains:** Coconut Oil, Soybean Oil.

<sup>1</sup> Strauss KA, et al. Mol Genet Metab. 2011.



## GlutarAde™ Amino Acid Blend

A lysine-free and low tryptophan powdered medical food for the dietary management of glutaric aciduria type 1 (GA-1) in children and adults.

### Main Features:

- Lysine free
- Amino acid profile specifically designed for GA-1; clinically researched in one study<sup>†</sup>
- Contains arginine and 480 mg of tryptophan per 100 g powder
- Does not contain fat, carbohydrates, vitamins and minerals
- 40 calories per serving
- Provides 81 g of protein equivalent per 100 g of powder
- Unflavored
- Displacement: 0.48 mL/g

### Indications:

- Glutaric acidemia type I

*For details on administration and household measurements, please see the end of this section.*

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|--------------|--------------------|----------------|-------------------|------------------|
| 7500         | 00847-0750-00      | B4155 or B9998 | 4 x 454 g (1 lb)  | 1471             |

**WIC<sup>‡</sup>:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

| Nutrients             | Per 10 g Protein Equivalent (1 scoop) |           | Amino Acids, g  | Per 10 g Protein Equivalent (1 scoop) |           |
|-----------------------|---------------------------------------|-----------|-----------------|---------------------------------------|-----------|
|                       | Per 100 g                             | Per 100 g |                 | Per 100 g                             | Per 100 g |
| Calories              | 324                                   | 40        | L-Alanine       | 3.86                                  | 0.48      |
| Protein Equivalent, g | 81                                    | 10        | L-Arginine      | 8.69                                  | 1.07      |
| Fat, g                | 0                                     | 0         | L-Asparagine    | 5.79                                  | 0.71      |
| Carbohydrate, g       | 0                                     | 0         | L-Cystine       | 1.45                                  | 0.18      |
| Sodium, mg            | 355                                   | 44        | L-Glutamic Acid | 2.90                                  | 0.36      |
|                       |                                       |           | L-Glutamine     | 14.48                                 | 1.79      |
|                       |                                       |           | Glycine         | 1.93                                  | 0.24      |
|                       |                                       |           | L-Histidine     | 2.90                                  | 0.36      |
|                       |                                       |           | L-Isoleucine    | 6.76                                  | 0.83      |
|                       |                                       |           | L-Leucine       | 11.10                                 | 1.37      |
|                       |                                       |           | L-Lysine        | Nil Added                             | Nil Added |
|                       |                                       |           | L-Methionine    | 3.28                                  | 0.41      |
|                       |                                       |           | L-Ornithine     | 1.93                                  | 0.24      |
|                       |                                       |           | L-Phenylalanine | 5.12                                  | 0.63      |
|                       |                                       |           | L-Proline       | 4.83                                  | 0.60      |
|                       |                                       |           | L-Serine        | 1.93                                  | 0.24      |
|                       |                                       |           | L-Threonine     | 5.12                                  | 0.63      |
|                       |                                       |           | L-Tryptophan    | 0.48                                  | 0.06      |
|                       |                                       |           | L-Tyrosine      | 5.79                                  | 0.71      |
|                       |                                       |           | L-Valine        | 7.72                                  | 0.95      |
|                       |                                       |           | L-Carnitine     | 0.20                                  | 0.03      |
|                       |                                       |           | Taurine         | 0.48                                  | 0.06      |

### Ingredients:

L-Glutamine, L-Leucine, L-Arginine, L-Valine, L-Isoleucine, L-Asparagine Monohydrate, L-Tyrosine, L-Phenylalanine, L-Threonine, L-Proline, L-Ornithine-Alpha Ketoglutarate, L-Alanine, L-Methionine, L-Glutamic Acid, L-Histidine, Glycine, L-Serine, L-Cystine, Taurine, L-Tryptophan, Silicon Dioxide, L-Carnitine.

**Note:** Must combine with an appropriate vitamin & mineral supplement when taken as the sole source of amino acid protein.

<sup>†</sup> Strauss KA, et al. Mol Genet Metab. 2011.

\* S9435 = For individuals who submit their bills to insurance on their own.



## HCU Anamix® Early Years

A methionine-free powdered infant formula with iron, for the dietary management of Vitamin B<sub>6</sub> non-responsive homocystinuria or hypermethioninemia. Contains DHA and ARA, and a unique blend of prebiotic fiber.

### Main Features:

- Methionine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic fiber blend
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent per 100 g of powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg  
Based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

### Indications:

- Vitamin B<sub>6</sub> non-responsive homocystinuria
- Hypermethioninemia

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code* | Product Packaging | Calories Per Can |
|--------------|--------------------|-------------|-------------------|------------------|
| 90169        | 49735-0101-69      | B4162       | 6 x 400 g (14 oz) | 1892             |

**WIC<sup>+</sup>: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g  |                    | Vitamins                          | Per 10 g   |                    |
|-----------------------|-----------|--------------------|-----------------------------------|------------|--------------------|
|                       | Per 100 g | Protein Equivalent |                                   | Per 100 g  | Protein Equivalent |
| Calories              | 473       | 350                | Vitamin A, IU (mcg RE)            | 1305 (392) | 967 (290)          |
| Protein Equivalent, g | 13.5      | 10.0               | Vitamin D <sub>3</sub> , IU (mcg) | 348 (8.7)  | 258 (6.4)          |
| Fat, g                | 23.0      | 17.0               | Vitamin E, IU (mg α-TE)           | 10.9 (7.3) | 8.1 (5.4)          |
| Saturated, g          | 7.5       | 5.6                | Vitamin K, mcg                    | 38.0       | 28.1               |
| Monounsaturated, g    | 9.4       | 7.0                | Thiamin, mcg                      | 640        | 474                |
| Polyunsaturated, g    | 5.0       | 3.7                | Riboflavin, mcg                   | 500        | 370                |
| DHA, mg               | 70.0      | 51.9               | Vitamin B <sub>6</sub> , mcg      | 500        | 370                |
| ARA, mg               | 140       | 104                | Vitamin B <sub>12</sub> , mcg     | 1.2        | 0.89               |
| Linoleic Acid, mg     | 3500      | 2593               | Niacin, mcg                       | 2200       | 1630               |
| Carbohydrate, g       | 53.0      | 39.3               | Folic Acid, mcg                   | 55.0       | 40.7               |
| Fiber, g              | 5.3       | 3.9                | Pantothenic Acid, mcg             | 2800       | 2074               |
| GOS, g                | 4.7       | 3.5                | Biotin, mcg                       | 18.2       | 13.5               |
| FOS, g                | 0.55      | 0.41               | Vitamin C, mg                     | 49.0       | 36.3               |
| <b>Amino Acids, g</b> |           |                    | Choline, mg                       | 91.0       | 67.4               |
| L-Alanine             | 0.64      | 0.47               | Inositol, mg                      | 98.0       | 72.6               |
| L-Arginine            | 1.09      | 0.81               | <b>Minerals</b>                   |            |                    |
| L-Aspartic Acid       | 0.93      | 0.69               | Calcium, mg                       | 371        | 275                |
| L-Cystine             | 0.41      | 0.30               | Phosphorus, mg                    | 270        | 200                |
| L-Glutamic Acid       | 1.22      | 0.90               | Magnesium, mg                     | 52.5       | 38.9               |
| L-Glutamine           | 0.11      | 0.08               | Iron, mg                          | 7.3        | 5.4                |
| Glycine               | 0.99      | 0.73               | Zinc, mg                          | 5.2        | 3.9                |
| L-Histidine           | 0.62      | 0.46               | Manganese, mcg                    | 390        | 289                |
| L-Isoleucine          | 0.98      | 0.73               | Copper, mcg                       | 390        | 289                |
| L-Leucine             | 1.67      | 1.2                | Iodine, mcg                       | 82.5       | 61.1               |
| L-Lysine              | 1.14      | 0.84               | Molybdenum, mcg                   | 10.9       | 8.1                |
| L-Methionine          | Nil Added | Nil Added          | Chromium, mcg                     | 12.5       | 9.3                |
| L-Phenylalanine       | 0.74      | 0.55               | Selenium, mcg                     | 14.1       | 10.4               |
| L-Proline             | 1.18      | 0.87               | Sodium, mg                        | 171        | 127                |
| L-Serine              | 0.73      | 0.54               | Potassium, mg                     | 454        | 336                |
| L-Threonine           | 0.82      | 0.61               | Chloride, mg                      | 321        | 238                |
| L-Tryptophan          | 0.33      | 0.24               |                                   |            |                    |
| L-Tyrosine            | 0.74      | 0.55               |                                   |            |                    |
| L-Valine              | 1.07      | 0.79               |                                   |            |                    |
| L-Carnitine           | 0.01      | 0.01               |                                   |            |                    |
| Taurine               | 0.02      | 0.01               |                                   |            |                    |

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-Hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (GOS) Dried Syrup (from milk), L-Lysine L-Glutamate, L-Leucine, L-Proline, Tricalcium Phosphate, L-Arginine, L-Valine, Glycine, L-Isoleucine, CAEM (an emulsifier), L-Aspartic Acid, L-Threonine, L-Serine, L-Phenylalanine, L-Tyrosine, L-Alanine, L-Histidine, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, Sodium Phosphate Dibasic, L-Cystine, Magnesium Acetate, M. Alpina Oil\*, L-Tryptophan, Choline Bitartrate, C. Cohnii Oil\*\*, L-Glutamine, Sodium Chloride, M-Inositol, L-Ascorbic Acid, L-Glutamic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin

**Contains:** Soy Oil, Coconut Oil, Milk.

\*A source of Arachidonic Acid (ARA)

\*\*A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL



## HCU Anamix® Next

A methionine-free, powdered medical food for the dietary management of homocystinuria in individuals over 1 year of age.

### Main Features:

- Methionine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate (including a multi-fiber blend), fat (including DHA), vitamins, minerals, and trace elements
- Provides 28 g protein equivalent and 12.5 g fat per 100 g of powder
- Available in Plain
- Osmolality (at 1.1 kcal/mL): 1340 mOsm/kg  
Based on dilution of 36 g powder (approx 4 scoops) to 3.5 fl oz (100 mL) water
- Displacement: 0.72 mL/g

### Indications:

- Homocystinuria

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|--------------|--------------------|----------------|-------------------|------------------|
| 89470        | 49735-0194-70      | B4162<br>B4157 | 6 x 400 g         | 1540             |

**WIC<sup>+</sup>: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g Protein Equivalent |           | Vitamins                          | Per 10 g Protein Equivalent |           |
|-----------------------|-----------------------------|-----------|-----------------------------------|-----------------------------|-----------|
|                       | Per 100 g                   | Per 10 g  |                                   | Per 100 g                   | Per 10 g  |
| Calories              | 385                         | 137.5     | Vitamin A, IU (mcg RE)            | 1399 (420)                  | 500 (150) |
| Protein Equivalent, g | 28                          | 10        | Vitamin D <sub>3</sub> , IU (mcg) | 840 (21)                    | 300 (7.5) |
| Fat, g                | 12.5                        | 4.5       | Vitamin E, IU (mg α-TE)           | 12.5 (8.4)                  | 4.5 (3)   |
| Saturated, g          | 2.0                         | 0.71      | Vitamin K, mcg                    | 14                          | 5         |
| Monounsaturated, g    | 8.2                         | 2.9       | Thiamin, mg                       | 0.93                        | 0.33      |
| Polyunsaturated, g    | 1.8                         | 0.64      | Riboflavin, mg                    | 0.73                        | 0.26      |
| DHA, mg               | 180                         | 64        | Vitamin B <sub>6</sub> , mg       | 0.73                        | 0.26      |
| Carbohydrate, g       | 43.2                        | 15.4      | Vitamin B <sub>12</sub> , mcg     | 1.3                         | 0.5       |
| Fiber, g              | 11.2                        | 4         | Niacin, mg                        | 2.0                         | 0.71      |
| Soluble, g            | 8                           | 2.9       | Folic Acid, mcg                   | 210                         | 75        |
| Insoluble, g          | 3.2                         | 1.1       | Pantothenic Acid, mg              | 4.2                         | 1.5       |
| <b>Amino Acids, g</b> |                             |           | Biotin, mcg                       | 11.2                        | 4         |
| L-Alanine             | 1.4                         | 0.5       | Vitamin C, mg                     | 42                          | 15        |
| L-Arginine            | 2.25                        | 0.8       | Choline, mg                       | 224                         | 80        |
| L-Aspartic Acid       | 2                           | 0.71      | Inositol, mg                      | 56                          | 20        |
| L-Cystine             | 1.5                         | 0.54      | <b>Minerals</b>                   |                             |           |
| L-Glutamine           | 2.6                         | 0.93      | Calcium, mg                       | 980                         | 350       |
| Glycine               | 2.13                        | 0.76      | Phosphorus, mg                    | 641                         | 229       |
| L-Histidine           | 1.22                        | 0.44      | Magnesium, mg                     | 113                         | 40        |
| L-Isoleucine          | 2.1                         | 0.75      | Iron, mg                          | 10                          | 3.6       |
| L-Leucine             | 3.46                        | 1.24      | Zinc, mg                          | 4.9                         | 1.8       |
| L-Lysine              | 2.44                        | 0.87      | Manganese, mg                     | 0.92                        | 0.33      |
| L-Methionine          | Nil Added                   | Nil Added | Copper, mcg                       | 560                         | 200       |
| L-Phenylalanine       | 1.5                         | 0.54      | Iodine, mcg                       | 139                         | 49.6      |
| L-Proline             | 2.52                        | 0.9       | Molybdenum, mcg                   | 25.5                        | 9.1       |
| L-Serine              | 1.57                        | 0.56      | Chromium, mcg                     | 10.2                        | 3.6       |
| L-Threonine           | 2                           | 0.71      | Selenium, mcg                     | 28.2                        | 10.1      |
| L-Tryptophan          | 0.5                         | 0.18      | Sodium, mg                        | 280                         | 100       |
| L-Tyrosine            | 1.6                         | 0.57      | Potassium, mg                     | 445                         | 158.9     |
| L-Valine              | 2.3                         | 0.82      | Chloride, mg                      | 406                         | 145       |
| L-Carnitine           | 0.02                        | 0.01      |                                   |                             |           |
| Taurine               | 0.05                        | 0.02      |                                   |                             |           |

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), L-Arginine L-Aspartate, L-Leucine, Fructo-oligosaccharides, L-Lysine Acetate, Inulin, Corn Starch, L-Glutamine, Calcium Phosphate Dibasic, L-Proline, Microcrystalline Cellulose, L-Valine, Artificial Flavor, Glycine, L-Isoleucine, L-Threonine, Gum Arabic, L-Tyrosine, L-Serine, L-Cystine, L-Phenylalanine, L-Alanine, Tripotassium Citrate, Trisodium Citrate, L-Histidine, Calcium Chloride, Magnesium Hydrogen Phosphate, Maltodextrin, Choline Bitartrate, CAEM (an emulsifier), L-Tryptophan, *C. Cohnii* Oil\*, Magnesium L-Aspartate, Tricalcium Citrate, L-Ascorbic Acid, Soy Fiber, M-Inositol, Taurine, Ferrrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Folic Acid, Potassium iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-alpha Tocopherol, Vitamin D<sub>3</sub>, Phylloquinone, D-Biotin, Cyanocobalamin

**Contains:** Coconut Oil, Soy.

\* A source of Docosahexaenoic Acid (DHA)



## XMet Maxamum®

A methionine-free powdered medical food for the dietary management of Vitamin B<sub>6</sub> non-responsive homocystinuria or hypermethioninemia in older children and adults, including pregnant women and women of child-bearing age.

### Main Features:

- Methionine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- XMet Maxamum provides 40 g of protein equivalent per 100 g of powder
- Available in orange flavor
- Contains <1 g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg):  
Dilution  
1 to 7      800  
1 to 5      1190
- Displacement: 0.6 mL/g

### Indications:

- Vitamin B<sub>6</sub> non-responsive homocystinuria
- Hypermethioninemia

*For details on administration and household measurements, please see the end of this section.*

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|--------------|--------------------|----------------|-------------------|------------------|
| 117795       | 49735-0177-95      | B4157 or B4162 | 6 x 454 g (1 lb)  | 1385             |

**WIC<sup>†</sup>: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g Protein Equivalent |                    | Vitamins                          | Per 10 g Protein Equivalent |                    |
|-----------------------|-----------------------------|--------------------|-----------------------------------|-----------------------------|--------------------|
|                       | Per 100 g                   | Protein Equivalent |                                   | Per 100 g                   | Protein Equivalent |
| Calories              | 305                         | 76                 | Vitamin A, IU (mcg RE)            | 2228 (669)                  | 557 (167)          |
| Protein Equivalent, g | 40                          | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 332 (8.3)                   | 83 (2.1)           |
| Fat, g                | <1                          | <0.25              | Vitamin E, IU (mg α-TE)           | 18.3 (12.3)                 | 4.6 (3.1)          |
| Carbohydrate, g       | 34                          | 8.5                | Vitamin K, mcg                    | 82                          | 21                 |
| <b>Amino Acids, g</b> |                             |                    | Thiamin, mg                       | 0.91                        | 0.23               |
| L-Alanine             | 1.8                         | 0.45               | Riboflavin, mg                    | 0.97                        | 0.24               |
| L-Arginine            | 3.2                         | 0.80               | Vitamin B <sub>6</sub> , mg       | 1.6                         | 0.4                |
| L-Aspartic Acid       | 2.7                         | 0.68               | Vitamin B <sub>12</sub> , mcg     | 3.1                         | 0.8                |
| L-Cystine             | 1.2                         | 0.30               | Niacin, mg                        | 5.7                         | 1.4                |
| L-Glutamic Acid       | 3.6                         | 0.90               | Folic Acid, mcg                   | 491                         | 123                |
| Glycine               | 2.8                         | 0.70               | Pantothenic Acid, mg              | 4.9                         | 1.2                |
| L-Histidine           | 1.8                         | 0.45               | Biotin, mcg                       | 24.5                        | 6.1                |
| L-Isoleucine          | 2.8                         | 0.70               | Vitamin C, mg                     | 62                          | 16                 |
| L-Leucine             | 4.9                         | 1.23               | Choline, mg                       | 430                         | 108                |
| L-Lysine              | 3.3                         | 0.83               | Inositol, mg                      | 80                          | 20                 |
| L-Methionine          | Nil Added                   | Nil Added          | <b>Minerals</b>                   |                             |                    |
| L-Phenylalanine       | 2.2                         | 0.55               | Calcium, mg                       | 1183                        | 296                |
| L-Proline             | 3.4                         | 0.85               | Phosphorus, mg                    | 1137                        | 284                |
| L-Serine              | 2.1                         | 0.53               | Magnesium, mg                     | 306                         | 77                 |
| L-Threonine           | 2.4                         | 0.60               | Iron, mg                          | 14.7                        | 3.7                |
| L-Tryptophan          | 0.95                        | 0.24               | Zinc, mg                          | 9                           | 2                  |
| L-Tyrosine            | 2.2                         | 0.55               | Manganese, mg                     | 1.8                         | 0.5                |
| L-Valine              | 3.1                         | 0.78               | Copper, mcg                       | 820                         | 205                |
| L-Carnitine           | 0.039                       | 0.01               | Iodine, mcg                       | 131                         | 33                 |
| Taurine               | 0.14                        | 0.04               | Molybdenum, mcg                   | 37                          | 9                  |
| L-Glutamine           | 0.32                        | 0.08               | Chromium, mcg                     | 26                          | 7                  |
|                       |                             |                    | Selenium, mcg                     | 58                          | 15                 |
|                       |                             |                    | Sodium, mg                        | 560                         | 140                |
|                       |                             |                    | Potassium, mg                     | 700                         | 175                |
|                       |                             |                    | Chloride, mg                      | 560                         | 140                |

### Ingredients:

Sugar, L-Lysine L-Glutamate, Corn Syrup Solids, L-Leucine, Calcium Phosphate Dibasic, L-Proline, L-Arginine, L-Valine, Glycine, L-Isoleucine, L-Aspartic Acid, L-Threonine, Artificial Flavor, L-Phenylalanine, L-Tyrosine, L-Serine, Citric Acid, Magnesium Acetate, L-Alanine, L-Histidine, Tripotassium Citrate, L-Cystine, Choline Bitartrate, L-Tryptophan, Sodium Chloride, Soy Lecithin, Disodium Hydrogen Phosphate, Dipotassium Hydrogen Phosphate, L-Glutamine, Tricalcium Phosphate, L-Glutamic Acid, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Colors (Beta-Carotene, Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Contains:** Soy.





## HCU Lophlex® LQ

A methionine-free\*, ready-to-drink medical food containing amino acids, carbohydrates, vitamins, minerals and DHA, based on mixed fruit juices (from concentrate) with natural flavor; for the dietary management of proven homocystinuria in individuals 4 years and older, including pregnant women and women of child-bearing age.

### Main Features:

- Methionine free
- Low volume; provides 20 g PE in just 4.2 fl oz (125 mL)
- Convenient ready-to-drink
- Based on fruit juices (from concentrate) with natural flavor - no artificial flavors
- Contains a balanced mixture of other essential and non-essential amino acids, carbohydrates, vitamins, minerals and DHA
- Provides 150 mg DHA per pouch
- Available in mixed berry blast flavor
- Osmolality (at 0.96 kcal/mL): 2460 mOsm/kg

### Indications:

- Homocystinuria

For details on administration, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging       | Calories Per Pouch |
|--------------|--------------------|----------------|-------------------------|--------------------|
| 82111        | 49735-0167-48      | B4157 or B4162 | 30 X 4.2 fl oz (125 mL) | 120                |

**WIC<sup>†</sup>:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

\*S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per Pouch   | Per 10 g           | Vitamins                          | Per Pouch   | Per 10 g           |
|-----------------------|-------------|--------------------|-----------------------------------|-------------|--------------------|
|                       | (4.2 fl oz) | Protein Equivalent |                                   | (4.2 fl oz) | Protein Equivalent |
| Calories              | 120         | 60                 | Vitamin A, IU (mcg RE)            | 949 (285)   | 475 (143)          |
| Protein Equivalent, g | 20          | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 320 (8.0)   | 160 (4.0)          |
| Fat, g                | 0.44        | 0.22               | Vitamin E, IU (mg α-TE)           | 4.8 (3.2)   | 2.4 (1.6)          |
| DHA, mg               | 150         | 75                 | Vitamin K, mcg                    | 24.9        | 12.5               |
| Carbohydrate, g       | 9.3         | 4.7                | Thiamin, mg                       | 0.54        | 0.27               |
| Fiber, g              | 0.50        | 0.25               | Riboflavin, mg                    | 0.50        | 0.25               |
| <b>Amino Acids, g</b> |             |                    | Vitamin B <sub>6</sub> , mg       | 0.58        | 0.29               |
| L-Alanine             | 1.18        | 0.59               | Vitamin B <sub>12</sub> , mcg     | 1.8         | 0.90               |
| L-Arginine            | 1.50        | 0.75               | Niacin, mg                        | 7.1         | 3.6                |
| L-Aspartic Acid       | 1.73        | 0.87               | Folic Acid, mcg                   | 120         | 60.0               |
| L-Cystine             | 0.98        | 0.49               | Pantothenic Acid, mg              | 1.8         | 0.9                |
| Glycine               | 1.60        | 0.80               | Biotin, mcg                       | 53.4        | 26.7               |
| L-Histidine           | 0.85        | 0.43               | Vitamin C, mg                     | 17.8        | 8.9                |
| L-Isoleucine          | 1.35        | 0.68               | Choline, mg                       | 153         | 76.5               |
| L-Leucine             | 2.30        | 1.15               | Inositol, mg                      | 40.6        | 20.3               |
| L-Lysine              | 1.55        | 0.78               | <b>Minerals</b>                   |             |                    |
| L-Methionine          | Trace*      | Trace*             | Calcium, mg                       | 319         | 160                |
| L-Phenylalanine       | 1.00        | 0.50               | Phosphorus, mg                    | 244         | 122                |
| L-Proline             | 2.03        | 1.02               | Magnesium, mg                     | 96.3        | 48.2               |
| L-Serine              | 1.38        | 0.69               | Iron, mg                          | 5.1         | 2.6                |
| L-Threonine           | 1.13        | 0.57               | Zinc, mg                          | 3.8         | 1.9                |
| L-Tryptophan          | 0.45        | 0.23               | Manganese, mg                     | 0.56        | 0.28               |
| L-Tyrosine            | 1.65        | 0.83               | Copper, mcg                       | 563         | 282                |
| L-Valine              | 1.45        | 0.73               | Iodine, mcg                       | 56.3        | 28.2               |
| L-Carnitine           | 0.01        | 0.01               | Molybdenum, mcg                   | 25.0        | 12.5               |
| Taurine               | 0.06        | 0.03               | Chromium, mcg                     | 10.8        | 5.4                |
|                       |             |                    | Selenium, mcg                     | 26.8        | 13.4               |
|                       |             |                    | Sodium, mg                        | <25.0       | <12.5              |
|                       |             |                    | Potassium, mg                     | 90          | 45                 |
|                       |             |                    | Chloride, mg                      | <25.0       | <12.5              |

### Ingredients:

Water, Apple Juice from Concentrate (34.1%), Grape Juice from Concentrate (6.9%), Blackcurrant Juice from Concentrate (2.5%), L-Arginine L-Aspartate, L-Leucine, L-Lysine Acetate, Citric Acid, L-Proline, L-Tyrosine, Glycine, L-Valine, L-Serine, L-Isoleucine, Corn Syrup Solids, Dicalcium Phosphate, L-Alanine, L-Threonine, L-Phenylalanine, L-Cystine, L-Histidine, Elderberry Juice from Concentrate (0.6%), Maltodextrin, Magnesium L-Aspartate, Magnesium Acetate, L-Tryptophan, Choline Bitartrate, C. *Cohnii Oil*<sup>†</sup>, Sugar, Microcrystalline Cellulose, Natural Flavor, Fruit Concentrate (Apple, Blackcurrant, Radish), L-Ascorbic Acid, Taurine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate (preservative to delay spoilage), Artificial Sweetener: Sucralose, Artificial Sweetener: Acesulfame Potassium, Ferrous Lactate, Sodium Benzoate (preservative to delay spoilage), Zinc Sulfate, L-Carnitine, Niacinamide, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Mixed Tocopherols, Sodium Molybdate, D-Biotin, Sodium Selenite, Chromium Chloride, Phylloquinone, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Contains:** 44.1% juice.

<sup>†</sup>A Source of Docosahexaenoic Acid (DHA).

\*May contain traces of methionine from fruit juice (from concentrate) at a level of <2 mg per 100 mL.



## MMA/PA Anamix® Early Years

A methionine-, threonine- and valine-free, low in isoleucine powdered infant formula with iron, for the dietary management of methylmalonic or propionic acidemia (MMA/PA). Contains DHA and ARA, and a unique blend of prebiotic fiber.

### Main Features:

- A methionine-, threonine- and valine-free, low in isoleucine powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic fiber blend
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent per 100 g of powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg  
Based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

### Indications:

- Methylmalonic acidemia
- Propionic acidemia

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code* | Product Packaging | Calories Per Can |
|--------------|--------------------|-------------|-------------------|------------------|
| 90215        | 49735-0102-15      | B4162       | 6 x 400 g (14 oz) | 1892             |

**WIC<sup>+</sup>:** Contact your state WIC office to determine availability.

For more reimbursement information see Resources.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g  |                    | Vitamins                          | Per 10 g   |                    |
|-----------------------|-----------|--------------------|-----------------------------------|------------|--------------------|
|                       | Per 100 g | Protein Equivalent |                                   | Per 100 g  | Protein Equivalent |
| Calories              | 473       | 350                | Vitamin A, IU (mcg RE)            | 1305 (392) | 967 (290)          |
| Protein Equivalent, g | 13.5      | 10.0               | Vitamin D <sub>3</sub> , IU (mcg) | 348 (8.7)  | 258 (6.4)          |
| Fat, g                | 23.0      | 17.0               | Vitamin E, IU (mg α-TE)           | 10.9 (7.3) | 8.1 (5.4)          |
| Saturated, g          | 7.5       | 5.6                | Vitamin K, mcg                    | 38.0       | 28.1               |
| Monounsaturated, g    | 9.4       | 7.0                | Thiamin, mcg                      | 640        | 474                |
| Polysaturated, g      | 5.0       | 3.7                | Riboflavin, mcg                   | 500        | 370                |
| DHA, mg               | 70.0      | 51.9               | Vitamin B <sub>6</sub> , mcg      | 500        | 370                |
| ARA, mg               | 140       | 104                | Vitamin B <sub>12</sub> , mcg     | 1.2        | 0.89               |
| Linoleic Acid, mg     | 3500      | 2593               | Niacin, mcg                       | 2200       | 1630               |
| Carbohydrate, g       | 53.0      | 39.3               | Folic Acid, mcg                   | 55.0       | 40.7               |
| Fiber, g              | 5.3       | 3.9                | Pantothenic Acid, mcg             | 2800       | 2074               |
| GOS, g                | 4.7       | 3.5                | Biotin, mcg                       | 18.2       | 13.5               |
| FOS, g                | 0.55      | 0.41               | Vitamin C, mg                     | 49.0       | 36.3               |
| <b>Amino Acids, g</b> |           |                    | Choline, mg                       | 91.0       | 67.4               |
| L-Alanine             | 1.6       | 1.2                | Inositol, mg                      | 98.0       | 72.6               |
| L-Arginine            | 1.4       | 1.0                | <b>Minerals</b>                   |            |                    |
| L-Aspartic Acid       | 1.27      | 0.94               | Calcium, mg                       | 371        | 275                |
| L-Cystine             | 0.51      | 0.38               | Phosphorus, mg                    | 270        | 200                |
| L-Glutamic Acid       | 1.59      | 1.2                | Magnesium, mg                     | 52.5       | 38.9               |
| L-Glutamine           | 0.11      | 0.08               | Iron, mg                          | 7.3        | 5.4                |
| Glycine               | 0.64      | 0.47               | Zinc, mg                          | 5.2        | 3.9                |
| L-Histidine           | 0.94      | 0.70               | Manganese, mcg                    | 390        | 289                |
| L-Isoleucine          | <0.01     | <0.01              | Copper, mcg                       | 390        | 289                |
| L-Leucine             | 2.12      | 1.6                | Iodine, mcg                       | 82.5       | 61.1               |
| L-Lysine              | 1.43      | 1.1                | Molybdenum, mcg                   | 10.9       | 8.1                |
| L-Methionine          | Nil Added | Nil Added          | Chromium, mcg                     | 12.5       | 9.3                |
| L-Phenylalanine       | 0.93      | 0.69               | Selenium, mcg                     | 14.1       | 10.4               |
| L-Proline             | 0.64      | 0.47               | Sodium, mg                        | 171        | 127                |
| L-Serine              | 0.89      | 0.66               | Potassium, mg                     | 454        | 336                |
| L-Threonine           | Nil Added | Nil Added          | Chloride, mg                      | 321        | 238                |
| L-Tryptophan          | 0.41      | 0.30               |                                   |            |                    |
| L-Tyrosine            | 0.93      | 0.69               |                                   |            |                    |
| L-Valine              | Nil Added | Nil Added          |                                   |            |                    |
| L-Carnitine           | 0.01      | 0.01               |                                   |            |                    |
| Taurine               | 0.02      | 0.01               |                                   |            |                    |

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (GOS) Dried Syrup (from milk), L-Lysine L-Glutamate, L-Leucine, L-Alanine, L-Arginine, L-Aspartic Acid, Tricalcium Phosphate, CAEM (an emulsifier), L-Histidine, L-Phenylalanine, L-Tyrosine, L-Serine, Glycine, L-Proline, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, L-Cystine, L-Tryptophan, Sodium Phosphate Dibasic, Magnesium Acetate, *M. Alpina* Oil\*, Choline Bitartrate, *C. Cohnii* Oil\*\*, L-Glutamine, Sodium Chloride, M-Inositol, L-Ascorbic Acid, L-Glutamic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin

**Contains:** Soy Oil, Coconut Oil, Milk.

\*A source of Arachidonic Acid (ARA)

\*\*A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL



## MMA/PA Anamix<sup>®</sup> Next

A methionine-, threonine-, valine-free, low isoleucine, powdered medical food for the dietary management of methylmalonic acidemia and propionic acidemia in individuals over 1 year of age.

### Main Features:

- Methionine, threonine, valine free
- Low isoleucine
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate (including a multi-fiber blend), fat (including DHA), vitamins, minerals, and trace elements
- Provides 28 g protein equivalent and 12.5 g fat per 100 g of powder
- Available in Plain
- Osmolality (at 1.1 kcal/mL): 1220 mOsm/kg  
Based on dilution of 36 g powder (approx 4 scoops) to 3.5 fl oz (100 mL) water
- Displacement: 0.72 mL/g

### Indications:

- Methylmalonic Acidemia
- Propionic Acidemia

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|--------------|--------------------|----------------|-------------------|------------------|
| 89472        | 49735-0194-72      | B4162<br>B4157 | 6 x 400 g         | 1508             |

**WIC<sup>+</sup>:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

\*S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g Protein Equivalent |                    | Vitamins                          | Per 10 g Protein Equivalent |                    |
|-----------------------|-----------------------------|--------------------|-----------------------------------|-----------------------------|--------------------|
|                       | Per 100 g                   | Protein Equivalent |                                   | Per 100 g                   | Protein Equivalent |
| Calories              | 377                         | 135                | Vitamin A, IU (mcg RE)            | 1748 (525)                  | 628 (189)          |
| Protein Equivalent, g | 28                          | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 1052 (26.3)                 | 379 (9.6)          |
| Fat, g                | 12.5                        | 4.5                | Vitamin E, IU (mg α-TE)           | 15.6 (10.5)                 | 5.6 (3.8)          |
| Saturated, g          | 2.0                         | 0.71               | Vitamin K, mcg                    | 17.5                        | 6.4                |
| Monounsaturated, g    | 8.2                         | 2.9                | Thiamin, mg                       | 1.2                         | 0.4                |
| Polyunsaturated, g    | 1.8                         | 0.64               | Riboflavin, mg                    | 0.91                        | 0.32               |
| DHA, mg               | 180                         | 64                 | Vitamin B <sub>6</sub> , mg       | 0.91                        | 0.32               |
| Carbohydrate, g       | 41.2                        | 14.8               | Vitamin B <sub>12</sub> , mcg     | 1.6                         | 0.56               |
| Fiber, g              | 11.2                        | 4                  | Niacin, mg                        | 2.5                         | 0.90               |
| Soluble, g            | 8                           | 2.9                | Folic Acid, mcg                   | 263                         | 94.8               |
| Insoluble, g          | 3.2                         | 1.1                | Pantothenic Acid, mg              | 5.3                         | 1.92               |
| <b>Amino Acids, g</b> |                             |                    | Biotin, mcg                       | 14                          | 5.2                |
| L-Alanine             | 3.42                        | 1.22               | Vitamin C, mg                     | 52.5                        | 18.8               |
| L-Arginine            | 3.0                         | 1.07               | Choline, mg                       | 280                         | 100                |
| L-Aspartic Acid       | 2.72                        | 0.97               | Inositol, mg                      | 70                          | 25.2               |
| L-Cystine             | 1.56                        | 0.56               | <b>Minerals</b>                   |                             |                    |
| L-Glutamine           | 3.61                        | 1.29               | Calcium, mg                       | 1225                        | 440                |
| Glycine               | 1.37                        | 0.49               | Phosphorus, mg                    | 801                         | 288                |
| L-Histidine           | 2.02                        | 0.72               | Magnesium, mg                     | 140                         | 50.4               |
| L-Isoleucine          | <0.03                       | <0.03              | Iron, mg                          | 12.5                        | 4.4                |
| L-Leucine             | 4.54                        | 1.62               | Zinc, mg                          | 6.1                         | 2.2                |
| L-Lysine              | 3.05                        | 1.09               | Manganese, mg                     | 1.2                         | 0.44               |
| L-Methionine          | Nil Added                   | Nil Added          | Copper, mcg                       | 700                         | 252                |
| L-Phenylalanine       | 1.99                        | 0.71               | Iodine, mcg                       | 174                         | 62.8               |
| L-Proline             | 1.37                        | 0.49               | Molybdenum, mcg                   | 31.9                        | 11.4               |
| L-Serine              | 1.98                        | 0.71               | Chromium, mcg                     | 12.8                        | 4.8                |
| L-Threonine           | Nil Added                   | Nil Added          | Selenium, mcg                     | 35.3                        | 12.8               |
| L-Tryptophan          | 0.69                        | 0.25               | Sodium, mg                        | 350                         | 126                |
| L-Tyrosine            | 1.99                        | 0.71               | Potassium, mg                     | 556                         | 200                |
| L-Valine              | Nil Added                   | Nil Added          | Chloride, mg                      | 508                         | 183                |
| L-Carnitine           | 0.02                        | 0.01               |                                   |                             |                    |
| Taurine               | 0.06                        | 0.02               |                                   |                             |                    |

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), L-Leucine, L-Lysine Acetate, L-Glutamine, Fructo-oligosaccharides, L-Alanine, Inulin, Calcium Phosphate Dibasic, L-Arginine, Corn Starch, L-Aspartic Acid, Microcrystalline Cellulose, Artificial Flavor, L-Histidine, L-Tyrosine, L-Phenylalanine, L-Serine, Gum Arabic, Tripotassium Citrate, Trisodium Citrate, L-Cystine, Glycine, L-Proline, Calcium Chloride, Magnesium Hydrogen Phosphate, Maltodextrin, Choline Bitartrate, L-Tryptophan, Tricalcium Citrate, CAEM (an emulsifier), C. Cohnii Oil<sup>†</sup>, L-Ascorbic Acid, M-Inositol, Soy Fiber, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Ascorbyl Palmitate, Potassium iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-alpha Tocopherol, Vitamin D<sub>3</sub>, Phylloquinone, D-Biotin, Cyanocobalamin

**Contains:** Coconut Oil, Soy.

<sup>†</sup>A source of Docosahexaenoic Acid (DHA)



## XMTVI Maxamum®

A methionine-, threonine-, valine-free and isoleucine-low medical food for the dietary management of Vitamin B<sub>12</sub> non-responsive methylmalonic acidemia or propionic acidemia in older children and adults, including pregnant women and women of child-bearing age.

### Main Features:

- Methionine, threonine, valine free and isoleucine low
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- XMTVI Maxamum provides 40 g of protein equivalent per 100 g of powder
- Available in orange flavor
- Contains <1 g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg):  
Dilution  
1 to 7      740  
1 to 5      1070
- Displacement: 0.6 mL/g

### Indications:

- Vitamin B<sub>12</sub> non-responsive methylmalonic acidemia
- Propionic acidemia

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|--------------|--------------------|----------------|-------------------|------------------|
| 117779       | 49735-0177-79      | B4162 or B4157 | 6 x 454 g (1 lb)  | 1385             |

**WIC†: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10g Protein Equivalent |                    | Vitamins                          | Per 10g Protein Equivalent |                    |
|-----------------------|----------------------------|--------------------|-----------------------------------|----------------------------|--------------------|
|                       | Per 100 g                  | Protein Equivalent |                                   | Per 100 g                  | Protein Equivalent |
| Calories              | 305                        | 76                 | Vitamin A, IU (mcg RE)            | 2228 (669)                 | 557 (167)          |
| Protein Equivalent, g | 40                         | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 332 (8.3)                  | 83 (2.1)           |
| Fat, g                | <1                         | <0.25              | Vitamin E, IU (mg α-TE)           | 18.3 (12.3)                | 4.6 (3.1)          |
| Carbohydrate, g       | 34                         | 8.5                | Vitamin K, mcg                    | 82                         | 21                 |
| <b>Amino Acids, g</b> |                            |                    | Thiamin, mg                       | 0.91                       | 0.23               |
| L-Alanine             | 4.6                        | 1.15               | Riboflavin, mg                    | 0.97                       | 0.24               |
| L-Arginine            | 4.1                        | 1.03               | Vitamin B <sub>6</sub> , mg       | 1.6                        | 0.4                |
| L-Aspartic Acid       | 3.6                        | 0.90               | Vitamin B <sub>12</sub> , mcg     | 3.1                        | 0.8                |
| L-Cystine             | 1.5                        | 0.38               | Niacin, mg                        | 5.7                        | 1.4                |
| L-Glutamic Acid       | 4.5                        | 1.13               | Folic Acid, mcg                   | 491                        | 123                |
| Glycine               | 1.8                        | 0.45               | Pantothenic Acid, mg              | 4.9                        | 1.2                |
| L-Histidine           | 2.8                        | 0.70               | Biotin, mcg                       | 24.5                       | 6.1                |
| L-Isoleucine          | <0.14                      | Trace              | Vitamin C, mg                     | 62                         | 16                 |
| L-Leucine             | 6.2                        | 1.55               | Choline, mg                       | 430                        | 108                |
| L-Lysine              | 4.2                        | 1.05               | Inositol, mg                      | 80                         | 20                 |
| L-Methionine          | Nil Added                  | Nil Added          | <b>Minerals</b>                   |                            |                    |
| L-Phenylalanine       | 2.7                        | 0.68               | Calcium, mg                       | 1183                       | 296                |
| L-Proline             | 1.9                        | 0.48               | Phosphorus, mg                    | 1137                       | 284                |
| L-Serine              | 2.6                        | 0.65               | Magnesium, mg                     | 306                        | 77                 |
| L-Threonine           | Nil Added                  | Nil Added          | Iron, mg                          | 14.7                       | 3.7                |
| L-Tryptophan          | 1.2                        | 0.30               | Zinc, mg                          | 9                          | 2                  |
| L-Tyrosine            | 2.7                        | 0.68               | Manganese, mg                     | 1.8                        | 0.5                |
| L-Valine              | Nil Added                  | Nil Added          | Copper, mcg                       | 820                        | 205                |
| L-Carnitine           | 0.039                      | 0.01               | Iodine, mcg                       | 131                        | 33                 |
| Taurine               | 0.14                       | 0.04               | Molybdenum, mcg                   | 37                         | 9                  |
| L-Glutamine           | 0.32                       | 0.08               | Chromium, mcg                     | 26                         | 7                  |
|                       |                            |                    | Selenium, mcg                     | 58                         | 15                 |
|                       |                            |                    | Sodium, mg                        | 560                        | 140                |
|                       |                            |                    | Potassium, mg                     | 700                        | 175                |
|                       |                            |                    | Chloride, mg                      | 560                        | 140                |

### Ingredients:

Sugar, L-Lysine L-Glutamate, L-Leucine, Corn Syrup Solids, L-Alanine, Calcium Phosphate Dibasic, L-Arginine, L-Aspartic Acid, L-Histidine, L-Phenylalanine, L-Tyrosine, L-Serine, Artificial Flavor, Citric Acid, Magnesium Acetate, Glycine, L-Proline, L-Cystine, L-Tryptophan, Tripotassium Citrate, Choline Bitartrate, Sodium Chloride, Soy Lecithin, Disodium Hydrogen Phosphate, Dipotassium Hydrogen Phosphate, L-Glutamine, Tricalcium Phosphate, L-Glutamic Acid, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamin Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Colors (Beta Carotene, Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Contains:** Soy.



## TYR Anamix® Early Years

A phenylalanine-, tyrosine-free powdered infant formula with iron, for the dietary management of tyrosinemia (TYR). Contains DHA and ARA, and a unique blend of prebiotic fiber.

### Main Features:

- A phenylalanine-, tyrosine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic fiber blend
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent per 100 g of powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg  
Based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

Visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com) for guidelines for the nutritional management of TYR.

### Indications:

- Tyrosinemia

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code* | Product Packaging | Calories Per Can |
|--------------|--------------------|-------------|-------------------|------------------|
| 90218        | 49735-0102-18      | B4162       | 6 x 400 g (14 oz) | 1892             |

**WIC†: Contact your state WIC office to determine availability.** For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g  |                    | Vitamins                          | Per 10 g   |                    |
|-----------------------|-----------|--------------------|-----------------------------------|------------|--------------------|
|                       | Per 100 g | Protein Equivalent |                                   | Per 100 g  | Protein Equivalent |
| Calories              | 473       | 350                | Vitamin A, IU (mcg RE)            | 1305 (392) | 967 (290)          |
| Protein Equivalent, g | 13.5      | 10.0               | Vitamin D <sub>3</sub> , IU (mcg) | 348 (8.7)  | 258 (6.4)          |
| Fat, g                | 23.0      | 17.0               | Vitamin E, IU (mg α-TE)           | 10.9 (7.3) | 8.1 (5.4)          |
| Saturated, g          | 7.5       | 5.6                | Vitamin K, mcg                    | 38.0       | 28.1               |
| Monounsaturated, g    | 9.4       | 7.0                | Thiamin, mcg                      | 640        | 474                |
| Polyunsaturated, g    | 5.0       | 3.7                | Riboflavin, mcg                   | 500        | 370                |
| DHA, mg               | 70.0      | 51.9               | Vitamin B <sub>6</sub> , mcg      | 500        | 370                |
| ARA, mg               | 140       | 104                | Vitamin B <sub>12</sub> , mcg     | 1.2        | 0.89               |
| Linoleic Acid, mg     | 3500      | 2593               | Niacin, mcg                       | 2200       | 1630               |
| Carbohydrate, g       | 53.0      | 39.3               | Folic Acid, mcg                   | 55.0       | 40.7               |
| Fiber, g              | 5.3       | 3.9                | Pantothenic Acid, mcg             | 2800       | 2074               |
| GOS, g                | 4.7       | 3.5                | Biotin, mcg                       | 18.2       | 13.5               |
| FOS, g                | 0.55      | 0.41               | Vitamin C, mg                     | 49.0       | 36.3               |
| <b>Amino Acids, g</b> |           |                    | Choline, mg                       | 91.0       | 67.4               |
| L-Alanine             | 0.68      | 0.50               | Inositol, mg                      | 98.0       | 72.6               |
| L-Arginine            | 1.19      | 0.88               | <b>Minerals</b>                   |            |                    |
| L-Aspartic Acid       | 1         | 0.74               | Calcium, mg                       | 371        | 275                |
| L-Cystine             | 0.45      | 0.33               | Phosphorus, mg                    | 270        | 200                |
| L-Glutamic Acid       | 1.34      | 0.99               | Magnesium, mg                     | 52.5       | 38.9               |
| L-Glutamine           | 0.11      | 0.08               | Iron, mg                          | 7.3        | 5.4                |
| Glycine               | 1.07      | 0.79               | Zinc, mg                          | 5.2        | 3.9                |
| L-Histidine           | 0.68      | 0.50               | Manganese, mcg                    | 390        | 289                |
| L-Isoleucine          | 1.07      | 0.79               | Copper, mcg                       | 390        | 289                |
| L-Leucine             | 1.83      | 1.4                | Iodine, mcg                       | 82.5       | 61.1               |
| L-Lysine              | 1.24      | 0.92               | Molybdenum, mcg                   | 10.9       | 8.1                |
| L-Methionine          | 0.29      | 0.21               | Chromium, mcg                     | 12.5       | 9.3                |
| L-Phenylalanine       | Nil Added | Nil Added          | Selenium, mcg                     | 14.1       | 10.4               |
| L-Proline             | 1.3       | 0.96               | Sodium, mg                        | 171        | 127                |
| L-Serine              | 0.8       | 0.59               | Potassium, mg                     | 454        | 336                |
| L-Threonine           | 0.89      | 0.66               | Chloride, mg                      | 321        | 238                |
| L-Tryptophan          | 0.36      | 0.27               |                                   |            |                    |
| L-Tyrosine            | Nil Added | Nil Added          |                                   |            |                    |
| L-Valine              | 1.17      | 0.9                |                                   |            |                    |
| L-Carnitine           | 0.01      | 0.0                |                                   |            |                    |
| Taurine               | 0.02      | 0.0                |                                   |            |                    |

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (GOS) Dried Syrup (from milk), L-Lysine L-Glutamate, L-Leucine, L-Proline, L-Arginine, L-Valine, Tricalcium Phosphate, Glycine, L-Isoleucine, L-Aspartic Acid, CAEM (an emulsifier), L-Threonine, L-Serine, L-Alanine, L-Histidine, Potassium Chloride, Fructo-oligosaccharides (FOS), Tripotassium Citrate, L-Cystine, Sodium Phosphate Dibasic, L-Tryptophan, Magnesium Acetate, *M. Alpina* Oil\*, L-Methionine, Choline Bitartrate, *C. Cohnii* Oil\*\*, L-Glutamine, Sodium Chloride, M-Inositol, L-Ascorbic Acid, L-Glutamic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Manganese Sulfate, Cupric Sulfate, Thiamine Hydrochloride, Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Chromium Chloride, Folic Acid, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin

**Contains:** Soy Oil, Coconut Oil, Milk.

\*A source of Arachidonic Acid (ARA)  
\*\*A source of Docosahexaenoic Acid (DHA)

Contains GOS/FOS 0.8 g per 100 mL



## TYR Anamix® Next

A phenylalanine- and tyrosine-free, powdered medical food for the dietary management of tyrosinemia in individuals over 1 year of age.

### Main Features:

- Phenylalanine and tyrosine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate (including a multi-fiber blend), fat (including DHA), vitamins, minerals and trace elements
- Provides 28 g protein equivalent and 12.5 g fat per 100 g of powder
- Available in a plain flavor
- Osmolality (at 1.1 kcal/mL): 1220 mOsm/kg  
Based on dilution of 36 g powder (approx 4 scoops) to 3.5 fl oz (100 mL) water
- Displacement: 0.72 mL/g

### Indications:

- Tyrosinemia

For details on administration and household measurements, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|--------------|--------------------|----------------|-------------------|------------------|
| 89479        | 49735-0194-79      | B4162<br>B4157 | 6 x 400 g (14 oz) | 1540             |

**WIC†: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g Protein Equivalent |                    | Vitamins                          | Per 10 g Protein Equivalent |                    |
|-----------------------|-----------------------------|--------------------|-----------------------------------|-----------------------------|--------------------|
|                       | Per 100 g                   | Protein Equivalent |                                   | Per 100 g                   | Protein Equivalent |
| Calories              | 385                         | 138                | Vitamin A, IU (mcg RE)            | 1399 (420)                  | 499 (150)          |
| Protein Equivalent, g | 28                          | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 840 (21)                    | 300 (7.5)          |
| Fat, g                | 12.5                        | 4.5                | Vitamin E, IU (mg α-TE)           | 12.5 (8.4)                  | 4.5 (3)            |
| Saturated, g          | 2                           | 0.71               | Vitamin K, mcg                    | 14                          | 5                  |
| Monounsaturated, g    | 8.2                         | 2.9                | Thiamin, mg                       | 0.93                        | 0.33               |
| Polyunsaturated, g    | 1.8                         | 0.64               | Riboflavin, mg                    | 0.73                        | 0.26               |
| DHA, mg               | 180                         | 64.3               | Vitamin B <sub>6</sub> , mg       | 0.73                        | 0.26               |
| Carbohydrate, g       | 43.2                        | 15.4               | Vitamin B <sub>12</sub> , mcg     | 1.3                         | 0.46               |
| Fiber, g              | 11.2                        | 4                  | Niacin, mg                        | 2.0                         | 0.71               |
| Soluble               | 8                           | 2.9                | Folic Acid, mcg                   | 210                         | 75                 |
| Insoluble             | 3.2                         | 1.1                | Pantothenic Acid, mg              | 4.2                         | 1.5                |
| <b>Amino Acids, g</b> |                             |                    | Biotin, mcg                       | 11.2                        | 4                  |
| L-Alanine             | 4.71                        | 1.7                | Vitamin C, mg                     | 42                          | 15                 |
| L-Arginine            | 1.67                        | 0.6                | Choline, mg                       | 224                         | 80                 |
| L-Aspartic Acid       | 0.41                        | 0.15               | Inositol, mg                      | 56                          | 20                 |
| L-Cystine             | 2.71                        | 0.97               | <b>Minerals</b>                   |                             |                    |
| L-Glutamine           | 3.36                        | 1.2                | Calcium, mg                       | 980                         | 350                |
| Glycine               | 3.94                        | 1.4                | Phosphorus, mg                    | 641                         | 229                |
| L-Histidine           | 0.79                        | 0.28               | Magnesium, mg                     | 113                         | 40                 |
| L-Isoleucine          | 1.66                        | 0.59               | Iron, mg                          | 10                          | 4                  |
| L-Leucine             | 2.52                        | 0.9                | Zinc, mg                          | 4.9                         | 1.8                |
| L-Lysine              | 2.24                        | 0.8                | Manganese, mg                     | 0.92                        | 0.33               |
| L-Methionine          | 0.56                        | 0.2                | Copper, mcg                       | 560                         | 200                |
| L-Phenylalanine       | Nil Added                   | Nil Added          | Iodine, mcg                       | 139                         | 50                 |
| L-Proline             | 2.71                        | 0.97               | Molybdenum, mcg                   | 25.5                        | 9.1                |
| L-Serine              | 1.59                        | 0.57               | Chromium, mcg                     | 10.2                        | 3.6                |
| L-Threonine           | 2.94                        | 1.1                | Selenium, mcg                     | 28.2                        | 10.1               |
| L-Tryptophan          | 0.56                        | 0.2                | Sodium, mg                        | 280                         | 100                |
| L-Tyrosine            | Nil Added                   | Nil Added          | Potassium, mg                     | 445                         | 159                |
| L-Valine              | 1.96                        | 0.7                | Chloride, mg                      | 406                         | 145                |
| L-Carnitine           | 0.02                        | 0.01               |                                   |                             |                    |
| Taurine               | 0.05                        | 0.02               |                                   |                             |                    |

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), L-Alanine, Glycine, Fructo-oligosaccharides, L-Glutamine, L-Lysine Acetate, Inulin, L-Threonine, Corn Starch, L-Cystine, L-Proline, Calcium Phosphate Dibasic, L-Leucine, Microcrystalline Cellulose, Artificial Flavor, L-Valine, Gum Arabic, L-Arginine, L-Isoleucine, L-Serine, Tripotassium Citrate, Trisodium Citrate, Calcium Chloride, L-Histidine, Maltodextrin, Choline Bitartrate, Magnesium Hydrogen Phosphate, L-Methionine, L-Tryptophan, Magnesium L-Aspartate, CAEM (an emulsifier), C. *Cohnii* Oil\*, Tricalcium Citrate, L-Ascorbic Acid, Soy Fiber, M-Inositol, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Folic Acid, Potassium Iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-alpha Tocopherol, Vitamin D<sub>3</sub>, Phylloquinone, D-Biotin, Cyanocobalamin

**Contains:** Coconut Oil, Soy.

\*A source of Docosahexaenoic Acid (DHA)



## TYR Lophlex® LQ

A tyrosine- and phenylalanine-free\*, ready-to-drink medical food containing amino acids, carbohydrates, vitamins, minerals and DHA, based on mixed fruit juices (from concentrate) with natural flavor; for the dietary management of proven tyrosinemia in individuals 4 years and older, including pregnant women and women of child-bearing age.

### Main Features:

- Tyrosine and phenylalanine free
- Low volume; provides 20 g PE in just 4.2 fl oz (125 mL)
- Convenient ready-to-drink
- Based on fruit juices (from concentrate) with natural flavor - no artificial flavors
- Contains a balanced mixture of essential and non-essential amino acids, carbohydrates, vitamins, minerals and DHA
- Contains 150 mg of DHA per pouch
- Available in mixed berry blast flavor
- Osmolality (at 0.96 kcal/mL): 2460 mOsm/kg

### Indications:

- Tyrosinemia

For details on administration, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code*    | Product Packaging      | Calories Per Pouch |
|--------------|--------------------|----------------|------------------------|--------------------|
| 82113        | 49735-0167-50      | B4157 or B4162 | 30X 4.2 fl oz (125 mL) | 120                |

**WIC<sup>+</sup>: Contact your state WIC office to determine availability.**

For more reimbursement information see *Resources*.

\*S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per Pouch   | Per 10 g           | Vitamins                          | Per Pouch   | Per 10 g           |
|-----------------------|-------------|--------------------|-----------------------------------|-------------|--------------------|
|                       | (4.2 fl oz) | Protein Equivalent |                                   | (4.2 fl oz) | Protein Equivalent |
| Calories              | 120         | 60                 | Vitamin A, IU (mcg RE)            | 949 (285)   | 475 (143)          |
| Protein Equivalent, g | 20          | 10                 | Vitamin D <sub>3</sub> , IU (mcg) | 320 (8.0)   | 160 (4.0)          |
| Fat, g                | 0.44        | 0.22               | Vitamin E, IU (mg α-TE)           | 4.8 (3.2)   | 2.4 (1.6)          |
| DHA, mg               | 150         | 75                 | Vitamin K, mcg                    | 24.9        | 12.5               |
| Carbohydrate, g       | 9.3         | 4.7                | Thiamin, mg                       | 0.54        | 0.27               |
| Fiber, g              | 0.50        | 0.25               | Riboflavin, mg                    | 0.50        | 0.25               |
| <b>Amino Acids, g</b> |             |                    | Vitamin B <sub>6</sub> , mg       | 0.58        | 0.29               |
| L-Alanine             | 1.13        | 0.57               | Vitamin B <sub>12</sub> , mcg     | 1.8         | 0.90               |
| L-Arginine            | 1.68        | 0.84               | Niacin, mg                        | 7.1         | 3.6                |
| L-Aspartic Acid       | 1.63        | 0.82               | Folic Acid, mcg                   | 120         | 60.0               |
| L-Cystine             | 0.83        | 0.42               | Pantothenic Acid, mg              | 1.8         | 0.9                |
| Glycine               | 1.63        | 0.82               | Biotin, mcg                       | 53.4        | 26.7               |
| L-Histidine           | 0.95        | 0.48               | Vitamin C, mg                     | 17.8        | 8.9                |
| L-Isoleucine          | 1.55        | 0.78               | Choline, mg                       | 153         | 76.5               |
| L-Leucine             | 2.50        | 1.25               | Inositol, mg                      | 40.6        | 20.3               |
| L-Lysine              | 1.75        | 0.88               | <b>Minerals</b>                   |             |                    |
| L-Methionine          | 0.40        | 0.20               | Calcium, mg                       | 319         | 160                |
| L-Phenylalanine       | Trace*      | Trace*             | Phosphorus, mg                    | 244         | 122                |
| L-Proline             | 2.03        | 1.02               | Magnesium, mg                     | 96.3        | 48.2               |
| L-Serine              | 1.30        | 0.65               | Iron, mg                          | 5.1         | 2.6                |
| L-Threonine           | 1.25        | 0.63               | Zinc, mg                          | 3.8         | 1.9                |
| L-Tryptophan          | 0.50        | 0.25               | Manganese, mg                     | 0.56        | 0.28               |
| L-Tyrosine            | Trace*      | Trace*             | Copper, mcg                       | 563         | 282                |
| L-Valine              | 1.65        | 0.83               | Iodine, mcg                       | 56.3        | 28.2               |
| L-Carnitine           | 0.02        | 0.01               | Molybdenum, mcg                   | 25.0        | 12.5               |
| Taurine               | 0.14        | 0.07               | Chromium, mcg                     | 10.8        | 5.4                |
|                       |             |                    | Selenium, mcg                     | 26.8        | 13.4               |
|                       |             |                    | Sodium, mg                        | <25.0       | <12.5              |
|                       |             |                    | Potassium, mg                     | 90          | 45                 |
|                       |             |                    | Chloride, mg                      | <25.0       | <12.5              |

### Ingredients:

Water, Apple Juice from Concentrate (34.1%), Grape Juice from Concentrate (6.9%), Blackcurrant Juice from Concentrate (2.5%), L-Leucine, L-Lysine Acetate, Citric Acid, L-Proline, L-Arginine, L-Valine, L-Aspartic Acid, Glycine, L-Isoleucine, L-Serine, L-Threonine, Corn Syrup Solids, Dicalcium Phosphate, L-Alanine, L-Histidine, L-Cystine, Elderberry Juice from Concentrate (0.6%), Maltodextrin, Magnesium Acetate, Sugar, N-Acetyl L-Methionine, L-Tryptophan, Choline Bitartrate, C. Cohnii Oil\*, Microcrystalline Cellulose, Natural Flavor, Taurine, Fruit Concentrate (Apple, Blackcurrant, Radish), L-Ascorbic Acid, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate (preservative to delay spoilage), Artificial Sweetener: Sucralose, Ferrous Lactate, Artificial Sweetener: Acesulfame Potassium, L-Carnitine, Sodium Benzoate (preservative to delay spoilage), Zinc Sulfate, Niacinamide, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Mixed Tocopherols, Sodium Molybdate, D-Biotin, Sodium Selenite, Chromium Chloride, Phylloquinone, Vitamin D<sub>3</sub>, Cyanocobalamin.

\*A Source of Docosahexaenoic Acid (DHA).

**Contains:** 44.1% juice.

\*May contain traces of tyrosine and phenylalanine from fruit juice (from concentrate).



## TYR Lophlex<sup>®</sup> GMP MIX-IN

A powdered medical food, low in phenylalanine and tyrosine, containing a mix of glycomacropeptide (GMP), essential and non-essential amino acids with small amounts of carbohydrates and some minerals. For the dietary management of proven Tyrosinemia (TYR) in individuals over 1 year of age.

### Main Features:

- A flexible source of GMP-based protein to help patients adhere to their nutritional goals
- The highest amount of protein per 100 g powder of any TYR product
- Mix into TYR formula to increase protein from a GMP-based source
- Mixes easily with flavored drinks and foods for variety
- Provides only 40 kcal per pouch
- Less than 0.5 g sugar per pouch
- No fat, no artificial flavors

### Indications:

- Tyrosinemia

*For details on administration, please see the end of this section.*

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code* | Product Packaging  | Calories Per Pouch |
|--------------|--------------------|-------------|--------------------|--------------------|
| 135757       | 49735-0157-57      | B4155       | 20x12.5g (0.44 oz) | 40                 |

**WIC<sup>+</sup>:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

\*S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients                          | Per 100 g Powder | Per 10 g Protein Equivalent (1 pouch) |
|------------------------------------|------------------|---------------------------------------|
| Calories                           | 324              | 40                                    |
| Protein Equivalent, g              | 80               | 10                                    |
| Fat, g                             | <0.1             | <0.1                                  |
| Carbohydrate, g                    | <1               | <0.5                                  |
| <b>Amino Acids, g</b>              |                  |                                       |
| L-Alanine                          | 3.2              | 0.40                                  |
| L-Arginine                         | 3.9              | 0.48                                  |
| L-Aspartic Acid                    | 4.7              | 0.59                                  |
| L-Cystine                          | 1.2              | 0.15                                  |
| L-Glutamic Acid                    | 10.8             | 1.35                                  |
| L-Glutamine                        |                  |                                       |
| Glycine                            | 7.5              | 0.94                                  |
| L-Histidine                        | 3.9              | 0.49                                  |
| L-Isoleucine                       | 5.8              | 0.72                                  |
| L-Leucine                          | 11.6             | 1.45                                  |
| L-Lysine                           | 6.2              | 0.78                                  |
| L-Methionine                       | 1.9              | 0.23                                  |
| L-Phenylalanine, mg                | 143              | 18                                    |
| L-Proline                          | 6.3              | 0.79                                  |
| L-Serine                           | 4.1              | 0.51                                  |
| L-Threonine                        | 9.0              | 1.13                                  |
| L-Tryptophan                       | 1.9              | 0.24                                  |
| L-Tyrosine, mg                     | 28               | 3.5                                   |
| L-Valine                           | 7.0              | 0.88                                  |
| L-Carnitine                        | 0.08             | 0.01                                  |
| Taurine                            | 0.24             | 0.030                                 |
| <b>Minerals and Trace Elements</b> |                  |                                       |
| Calcium, mg                        | 62.1             | 7.8                                   |
| Phosphorus, mg                     | 320              | 40.0                                  |
| Potassium, mg                      | 960              | 120                                   |
| Sodium, mg                         | 1125             | 141                                   |

### Ingredients:

Whey Protein Concentrate\* (From Milk), L-Leucine, Glycine, L-Lysine Acetate, L-Histidine, L-Arginine, L-Valine. Contains 2% or less of the following: L-Tryptophan, L-Cystine, L-Methionine, Corn Syrup Solids, Silicon Dioxide, Taurine, L-Carnitine.

**Contains:** Milk.

\*Contains 18 mg of Phenylalanine and 3.5 mg Tyrosine per 10 g Protein Equivalent

**Note:** Must be combined with an appropriate vitamin & mineral supplement when taken as a sole source of TYR Medical Food.





## UCD Anamix® Junior

A powdered medical food containing essential amino acids (with increased levels of branched chain amino acids (BCAAs) and tryptophan), carbohydrates, fat, vitamins and minerals; for the dietary management of urea cycle disorders (UCD); hyperammonemia, hyperornithinemia, homocitrullinemia (HHH) syndrome; and gyrate atrophy in patients over the age of 1.

### Main Features:

- Contains essential amino acids to help maintain a positive nitrogen balance in UCD
- Amino acid profile rich in BCAAs for efficient and optimal protein synthesis for children with UCD
- Sufficient non-protein calories to prevent protein being broken down for energy and toxic metabolites being produced
- Essential micronutrients such as calcium, vitamin D, iron and zinc supplied to compensate for low intake from natural food
- Available in unflavored and vanilla flavor
- Osmolality (mOsm/kg):  
Dilution  
1 to 3.5    1040
- Displacement: 0.70 mL/g

### Indications:

- Urea Cycle Disorders (UCD)
- Hyperammonemia, Hyperornithinemia, Homocitrullinemia (HHH) syndrome
- Gyrate atrophy

For details on administration and household measurements, please see the end of this section.

Visit [NutritionalLearningCenter.com](http://NutritionalLearningCenter.com) for a practical guide for the use of UCD Anamix Junior.

### Ordering/Reimbursement Information:

| Product Code       | Reimbursement Code | HCPCS Code*    | Product Packaging | Calories Per Can |
|--------------------|--------------------|----------------|-------------------|------------------|
| 59292 - Unflavored | 49735-0192-92      | B4157 or B4162 | 6 X 400 g (14 oz) | 1540             |
| 59293 - Vanilla    | 49735-0192-93      | B4157 or B4162 | 6 X 400 g (14 oz) | 1540             |

**WIC<sup>†</sup>:** Contact your state WIC office to determine availability. For more reimbursement information see *Resources*.

\* S9435 = For individuals who submit their bills to insurance on their own.

### Nutrition Information:

| Nutrients             | Per 10 g Protein Equivalent |           | Vitamins                          | Per 10 g Protein Equivalent |             |
|-----------------------|-----------------------------|-----------|-----------------------------------|-----------------------------|-------------|
|                       | Per 100 g                   | Per 100 g |                                   | Per 100 g                   | Per 100 g   |
| Calories              | 385                         | 321       | Vitamin A, IU (mcg RE)            | 3197 (960)                  | 2664 (800)  |
| Protein Equivalent, g | 12.0                        | 10.0      | Vitamin D <sub>3</sub> , IU (mcg) | 920 (23.0)                  | 767 (19.2)  |
| Fat, g                | 17.0                        | 14.2      | Vitamin E, IU (mg α-TE)           | 27.5 (18.5)                 | 22.9 (15.4) |
| Carbohydrate, g       | 46.0                        | 38.3      | Vitamin K, mcg                    | 92.2                        | 76.8        |
| <b>Amino Acids, g</b> |                             |           | Thiamin, mg                       | 1.9                         | 1.6         |
| L-Alanine             | Nil Added                   | Nil Added | Riboflavin, mg                    | 1.5                         | 1.3         |
| L-Arginine            | Nil Added                   | Nil Added | Vitamin B <sub>6</sub> , mg       | 1.5                         | 1.3         |
| L-Asparagine          | Nil Added                   | Nil Added | Vitamin B <sub>12</sub> , mcg     | 3.8                         | 3.2         |
| L-Aspartic Acid       | Nil Added                   | Nil Added | Niacin, mg                        | 9.6                         | 8.0         |
| L-Citrulline          | Nil Added                   | Nil Added | Folic Acid, mcg                   | 461                         | 384         |
| L-Cystine             | 0.43                        | 0.36      | Pantothenic Acid, mg              | 6.1                         | 5.1         |
| L-Glutamic Acid       | Nil Added                   | Nil Added | Biotin, mcg                       | 34.6                        | 28.8        |
| L-Glutamine           | Nil Added                   | Nil Added | Vitamin C, mg                     | 120                         | 100         |
| Glycine               | Nil Added                   | Nil Added | Choline, mg                       | 480                         | 400         |
| L-Histidine           | 0.51                        | 0.43      | Inositol, mg                      | 108                         | 90          |
| L-Isoleucine          | 2.26                        | 1.88      | <b>Minerals</b>                   |                             |             |
| L-Leucine             | 3.82                        | 3.18      | Calcium, mg                       | 1555                        | 1296        |
| L-Lysine              | 1.92                        | 1.60      | Phosphorus, mg                    | 1555                        | 1296        |
| L-Methionine          | 0.40                        | 0.33      | Magnesium, mg                     | 246                         | 205         |
| L-Phenylalanine       | 0.67                        | 0.56      | Iron, mg                          | 26.9                        | 22.4        |
| L-Proline             | Nil Added                   | Nil Added | Zinc, mg                          | 21.1                        | 17.6        |
| L-Serine              | Nil Added                   | Nil Added | Manganese, mg                     | 3.6                         | 3.0         |
| L-Threonine           | 1.59                        | 1.33      | Copper, mcg                       | 1900                        | 1583        |
| L-Tryptophan          | 0.48                        | 0.40      | Iodine, mcg                       | 276                         | 230         |
| L-Tyrosine            | 1.23                        | 1.03      | Molybdenum, mcg                   | 63.4                        | 52.8        |
| L-Valine              | 2.29                        | 1.91      | Chromium, mcg                     | 41.3                        | 34.4        |
| L-Carnitine           | 0.009                       | 0.008     | Selenium, mcg                     | 76.8                        | 64.0        |
| Taurine               | 0.069                       | 0.058     | Sodium, mg                        | 1114                        | 928         |
|                       |                             |           | Potassium, mg                     | 1613                        | 1344        |
|                       |                             |           | Chloride, mg                      | 864                         | 720         |

### Ingredients:

Unflavored: Corn Syrup Solids, Refined Vegetable Oils (High Oleic Safflower, Canola, Fractionated Coconut), Sugar, L-Leucine, Sodium Phosphate Dibasic, Tripotassium Citrate, Tricalcium Citrate, Tricalcium Phosphate, L-Lysine Hydrochloride, L-Valine, L-Isoleucine, Magnesium Hydrogen Phosphate, L-Threonine, Choline Bitartrate, L-Tyrosine, Potassium Chloride, Citric Acid Ester of Mono- And Diglycerides (An Emulsifier), L-Phenylalanine, L-Histidine, L-Tryptophan, L-Cystine, L-Methionine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, Taurine, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Manganese Sulfate, Niacinamide, L-Carnitine, Calcium-D-Pantothenate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Sodium Selenite, Chromium Chloride, Sodium Molybdate, Phylloquinil Added, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Vanilla** flavored version also contains: Artificial flavor.

**Contains:** Coconut Oil.



## SOD Anamix® Early Years

A methionine- and cystine-free powdered infant formula for the dietary management of conditions requiring restriction of methionine and cystine (e.g. sulphite oxidase deficiency).

### Main Features:

- Methionine-, cystine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic fiber blend
- Unflavored powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements
- Provides 13.5 g of protein equivalent per 100 g of powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg  
Based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

### Indications:

- Sulphite oxidase deficiency
- Other conditions requiring restriction of methionine and cystine

*For details on administration and household measurements, please see the end of this section.*

### Additional Information:

Please note that this product is available by special order only. For detailed information on SOD Anamix Early Years, please contact our Nutrition Services Department.

### Ordering/Reimbursement Information:

| Product Code          | Reimbursement Code | HCPCS Code* | Product Packaging | Calories Per Can |
|-----------------------|--------------------|-------------|-------------------|------------------|
| 90212 (Special Order) | 49735-0102-12      | B4162       | 3 x 400 g (14 oz) | 1892             |

\* S9435 = For individuals who submit their bills to insurance on their own.

## XMet, XCys Maxamaid®

A methionine- and cystine-free powdered medical food for the dietary management of conditions requiring restriction of methionine and cystine (e.g. sulphite oxidase deficiency) in individuals over 1 year of age.

### Main Features:

- Methionine and cystine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- XMet, XCys Maxamaid provides 25 g of protein equivalent per 100 g of powder
- Available as unflavored powder
- Contains <1 g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg):

|          |     |
|----------|-----|
| Dilution |     |
| 1 to 5   | 690 |
| 1 to 7   | 490 |

### Indications:

- Sulphite oxidase deficiency
- Other conditions requiring restriction of methionine and cystine

*For details on administration and household measurements, please see pages 124-136.*

### Additional Information:

Please note that this product is available by special order only. For detailed information on XMet, XCys Maxamaid, please contact our Nutrition Services Department.

### Ordering/Reimbursement Information:

| Product Code           | Reimbursement Code | HCPCS Code | Product Packaging   | Calories Per Can |
|------------------------|--------------------|------------|---------------------|------------------|
| 116194 (Special Order) | 49735-0114-57      | B4162      | 3 x 500 g (17.6 oz) | 1545             |

## Household Measurements

| Measure   | g Product | g Protein Equivalent |
|---|-----------|----------------------|
| <b>PKU Periflex Early Years</b>                       |           |                      |
| Enclosed scoop  | 5.0       | 0.68                 |
| 1 Tbsp  | 9.0       | 1.2                  |
| 1 cup   | 144       | 19.4                 |
| <b>MSUD Anamix Early Years</b>                        |           |                      |
| Enclosed scoop  | 5.0       | 0.68                 |
| 1 Tbsp  | 9.0       | 1.2                  |
| 1 cup   | 140       | 19.4                 |
| <b>GA-1, TYR, MMA/PA, HCU, IVA Anamix Early Years</b> |           |                      |
| Enclosed scoop  | 5.0       | 0.68                 |
| 1 Tbsp  | 8.8       | 1.2                  |
| 1 cup   | 140       | 18.9                 |
| <b>PKU Periflex Junior Plus (Plain)</b>               |           |                      |
| Enclosed scoop  | 9.0       | 2.5                  |
| 1 Tbsp  | 8.7       | 2.4                  |
| 1 cup   | 139       | 38.9                 |
| <b>PKU Periflex Junior Plus (Flavors)</b>             |           |                      |
| Enclosed scoop  | 9.0       | 2.5                  |
| 1 Tbsp  | 8.3       | 2.3                  |
| 1 cup   | 132       | 37                   |
| <b>TYR Anamix Next</b>                                |           |                      |
| Enclosed scoop  | 9.0       | 2.5                  |
| 1 Tbsp  | 8.6       | 2.4                  |
| 1 cup   | 137       | 38.4                 |

| Measure                              | g Product | g Protein Equivalent |
|--------------------------------------|-----------|----------------------|
| <b>HCU Anamix Next</b>               |           |                      |
| Enclosed scoop                       | 9.0       | 2.5                  |
| 1 Tbsp                               | 8.3       | 2.3                  |
| 1 cup                                | 133       | 37.2                 |
| <b>IVA, MMA/PA Anamix Next</b>       |           |                      |
| Enclosed scoop                       | 9.0       | 2.5                  |
| 1 Tbsp                               | 8.8       | 2.5                  |
| 1 cup                                | 140       | 39.2                 |
| <b>UCD Anamix Junior Unflavored</b>  |           |                      |
| Enclosed scoop                       | 5.0       | 0.60                 |
| 1 Tbsp                               | 9.0       | 1.1                  |
| 1 cup                                | 143       | 17.2                 |
| <b>UCD Anamix Junior Vanilla</b>     |           |                      |
| Enclosed scoop                       | 5.0       | 0.60                 |
| 1 Tbsp                               | 8.7       | 1.0                  |
| 1 cup                                | 139       | 16.7                 |
| <b>Periflex Advance</b>              |           |                      |
| 1 Tbsp                               | 9.4       | 3.3                  |
| 1 cup                                | 150       | 53                   |
| <b>PhenylAde Essential Drink Mix</b> |           |                      |
| Enclosed scoop or 1 pouch            | 40        | 10                   |
| 1 Tbsp                               | 10        | 2.5                  |
| 1 cup                                | 160       | 40                   |
| <b>PhenylAde GMP Drink Mix</b>       |           |                      |
| Enclosed scoop or 1 pouch            | 33.3      | 10                   |
| 1 Tbsp                               | 6.6       | 2                    |
| 1 cup                                | 128       | 38.4                 |
| <b>PhenylAde GMP Mix-In</b>          |           |                      |
| 1 pouch                              | 12.5      | 10                   |

| Measure                                   | g Product | g Protein Equivalent |
|---|-----------|----------------------|
| <b>PhenylAde 40 Drink Mix</b>             |           |                      |
| 1 pouch                                   | 25        | 10                   |
| <b>PhenylAde 60 Drink Mix</b>             |           |                      |
| Enclosed scoop or 1 pouch                 | 16.7      | 10                   |
| 1 Tbsp                                    | 9.8       | 5.9                  |
| 1 cup                                     | 148       | 90                   |
| <b>PhenylAde MTE Amino Acid Blend</b>     |           |                      |
| Enclosed scoop or 1 pouch                 | 12.8      | 10                   |
| 1 Tbsp                                    | 8.5       | 6.6                  |
| 1 cup                                     | 116       | 90                   |
| <b>PhenylAde Amino Acid Blend</b>         |           |                      |
| Enclosed scoop or 1 pouch                 | 12.4      | 10                   |
| 1 Tbsp                                    | 8.5       | 6.9                  |
| 1 cup                                     | 116       | 94                   |
| <b>GlutarAde Junior GA-1 Drink Mix</b>    |           |                      |
| Enclosed scoop                            | 9.8       | 0.98                 |
| 1 Tbsp                                    | 9.3       | 0.93                 |
| 1 cup                                     | 146       | 14.6                 |
| <b>GlutarAde Essential GA-1 Drink Mix</b> |           |                      |
| Enclosed scoop                            | 40        | 10                   |
| 1 Tbsp                                    | 10        | 2.5                  |
| 1 cup                                     | 160       | 40                   |
| <b>GlutarAde GA-1 Amino Acid Blend</b>    |           |                      |
| Enclosed scoop                            | 12.3      | 10                   |
| 1 Tbsp                                    | 8.5       | 6.9                  |
| 1 cup                                     | 116       | 94                   |
| <b>Complex Junior MSD Drink Mix</b>       |           |                      |
| Enclosed scoop                            | 8.5       | 1.1                  |
| 1 Tbsp                                    | 8.4       | 1.1                  |
| 1 cup                                     | 118       | 15.2                 |

| Measure  | g Product | g Protein Equivalent |
|--|-----------|----------------------|
| <b>Complex Essential MSD Drink Mix</b>           |           |                      |
| Enclosed scoop                                   | 40        | 10                   |
| 1 Tbsp   | 9.8       | 2.4                  |
| 1 cup  | 160       | 40                   |
| <b>Complex MSD Amino Acid Blend</b>              |           |                      |
| Enclosed scoop                                   | 12.4      | 10                   |
| 1 Tbsp   | 8.2       | 6.6                  |
| 1 cup  | 124       | 100                  |
| <b>Maxamum Range (Flavored &amp; Unflavored)</b> |           |                      |
| 1 Tbsp   | 9         | 3.6                  |
| 1 cup  | 145       | 58                   |
| <b>TYR Lophlex GMP MIX-IN</b>                    |           |                      |
| 1 pouch  | 12.5      | 10                   |

Household measures are based on standard US, dry household measures.\* All measures are level and unpacked. These values are approximations only and have been provided for convenience: results can vary significantly based on the individual, device, and method. Nutricia North America recommends using a gram scale for greatest accuracy. The scoops Nutricia provides are validated for use with Nutricia formulas, so are preferable to household measures.

\*US measures: 1 cup = 240 mL; ½ cup = 120 mL; ¼ cup = 80 mL; ⅓ cup = 60 mL; 1 Tbsp = 15 mL; 1 tsp = 5 mL; ½ tsp = 2.5 mL

Household measures are based on standard US, dry household measures.\* All measures are level and unpacked. These values are approximations only and have been provided for convenience: results can vary significantly based on the individual, device, and method. Nutricia North America recommends using a gram scale for greatest accuracy. The scoops Nutricia provides are validated for use with Nutricia formulas, so are preferable to household measures.

\*US measures: 1 cup = 240 mL; ½ cup = 120 mL; ¼ cup = 80 mL; ⅓ cup = 60 mL; 1 Tbsp = 15 mL; 1 tsp = 5 mL; ½ tsp = 2.5 mL

## PKU Periflex® & Anamix® Early Years

Powdered infant formulas with iron containing DHA and ARA, and a unique blend of prebiotic fiber.

### Administration:

- Must be consumed in conjunction with a whole protein source (e.g. breast milk or standard infant formula) in quantities prescribed by a dietitian or physician to meet the general nutrition requirements to ensure normal growth and development.
- Formula dosage and dilution will vary depending on the age, body weight, medical condition and protein tolerance of the infant.

### Mixing Instructions:

- To make a standard dilution (21 kcal/fl oz), add 1 unpacked level scoop (5 g) of powder to each fluid ounce of water. Only use the scoop provided. For accuracy formula should be weighed on a gram scale.
- PKU Periflex/Anamix Early Years may be mixed with warm or cool sterile water. Do not boil formula or use a microwave to prepare or warm formula.

To make formula:

- 1) Wash hands thoroughly and clean the preparation area.
- 2) Pour the required amount of cooled, boiled water into the sterilized feeding bottle\*.
- 3) Add the prescribed number of leveled scoops of formula to the water in the sterilized feeding bottle.
- 4) Place cap on the bottle and shake until the powder dissolves. Shake immediately BEFORE USE.

| Amount of Water   | Amount of Powder | Approx. Protein Equiv. | Approx. Final Volume |
|-------------------|------------------|------------------------|----------------------|
| 5 fl oz (150 mL)  | 5 scoops (25 g)  | 3.4 g                  | 5.6 fl oz (168 mL)   |
| 8 fl oz (240 mL)  | 8 scoops (40 g)  | 5.4 g                  | 9 fl oz (270 mL)     |
| 12 fl oz (360 mL) | 12 scoops (60 g) | 8.1 g                  | 13.5 fl oz (405 mL)  |

\*Boiling is the preferred method of sterilizing water, bottles, nipples and mixing utensils.

**Important Preparation Information:** Freshly prepared formula is best. Formula prepared in advance must be cooled rapidly, stored in the refrigerator and used within 24 hours of preparation. Formula remaining in the bottle after one hour of feeding should be discarded. Powdered infant formula is not sterile.

### Precautions:

- Do not boil formula or use a microwave to prepare or warm formula.
- Must be given under strict medical supervision to infants with a proven metabolic disorder. Not intended as the sole source of nutrition. Not for parenteral use.

### Storage:

- Store unopened cans at room temperature. Avoid extreme temperatures. Once opened, reseal can and store in a cool, dry place. Use within two weeks.

## PKU Periflex® Junior Plus & Anamix® Next

Metabolic formulas for the dietary management of metabolic disorders in individuals over one year of age.

### Administration:

- PKU Periflex Junior Plus & Anamix Next must be consumed in conjunction with whole protein and other nutrients in quantities prescribed by a dietitian or physician to supply the fluid and general nutrition requirements.
- Intended for individuals over 1 year of age.
- Intake of Periflex Junior Plus or Anamix Next is dependent on the age, body weight and medical condition of the individual. Periflex Junior Plus or Anamix Next should be divided into equal portions and distributed throughout the day.

### Mixing Instructions:

- Add the desired volume of water to a shaker or other container with a tight fitting lid. Then add the prescribed amount of powder and shake until fully blended together. Best served chilled.
- Standard solution is 3.5 fl oz (100 mL) water plus 36 g powder (approx. 4 scoops) made up to a final volume of approx. 4.3 fl oz (126 mL).

| Dilution (kcal/mL) | Amount of Powder       | Water Added        | Final Volume       |
|--------------------|------------------------|--------------------|--------------------|
| 0.6                | 18 g (approx 2 scoops) | 3.5 fl oz (100 mL) | 3.9 fl oz (114 mL) |
| 0.9                | 27 g (approx 3 scoops) | 3.5 fl oz (100 mL) | 4.0 fl oz (120 mL) |
| 1.1                | 36 g (approx 4 scoops) | 3.5 fl oz (100 mL) | 4.3 fl oz (126 mL) |

Freshly prepared formula is best. Refrigerate pre-mixed formula immediately and use within 24 hours of mixing. Shake immediately before use. Tube feeding hang time not to exceed 4 hours.

### Precautions:

- Must only be consumed by individuals with proven inborn errors of metabolism. Not intended for infants. Not intended as sole source of nutrition. Not for parenteral use.

### Storage:

- Store unopened can at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not refrigerator) and use within 14 days of opening.

## Periflex® Advance and Periflex® LQ

Age-specific medical foods for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and women of child-bearing age.

### Administration:

- Use only under the direction of a physician or dietitian. Periflex must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet phenylalanine and general nutritional requirements.
- Periflex Advance is intended for older children and adults, including pregnant women and women of child-bearing age.
- Intake of Periflex is dependent on the age, bodyweight and medical condition of the individual. Periflex should be divided into equal portions and distributed throughout the day.

### Mixing Instructions:

#### Periflex Advance

- Add the desired volume of water to a shaker or other container with a tight fitting lid. Then add the prescribed amount of powder and shake until fully blended together. Dilution guidelines are shown in the tables below. Periflex is best served chilled.
- Periflex tastes great when blended with 1 fl oz (30 mL) of water for every 5 to 6 grams of powder.

#### Dilution Guidelines for Periflex Advance

| Volume of Water             | Prescribed Amount | Approx. Protein Equiv. |
|-----------------------------|-------------------|------------------------|
| 2 to 3 fl oz (60-90 mL)     | 16 g              | 6 g                    |
| 4 to 5 fl oz (120-150 mL)   | 32 g              | 11 g                   |
| 8 to 10 fl oz (240-300 mL)  | 64 g              | 22 g                   |
| 16 to 20 fl oz (480-600 mL) | 128 g             | 45 g                   |

- Once prepared, store formula in a refrigerator for no longer than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.

#### Periflex LQ

Shake well before use. Best served chilled.

### Precautions:

- Must only be consumed by individuals with proven phenylketonuria. Not intended for infants. Not intended as the sole source of nutrition. Not for parenteral use.

### Storage:

- Store unopened can at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month of opening.
- Store Periflex LQ in a cool dry place away from sunlight.

Dilutions are guidelines only. Periflex Advance may be given in a more concentrated form (e.g., a paste or concentrated drink) by using less water. If consumed in a concentrated form, water or other drinks should also be consumed at the same time.

## Maxamum®

Age-specific medical foods for the dietary management of metabolic disorders in older children and adults, including pregnant women and women of child-bearing age.

### Administration:

- Must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet protein and general nutrition requirements.
- Recommended intake will vary depending on the age, body weight and medical condition of the individual. Intake is adjusted to maintain normal growth and development. For accuracy, weigh on a gram scale. The daily intake should be divided into equal portions and distributed throughout the day.
- Intended for older children and adults, including pregnant women and women of child-bearing age.

### Mixing Instructions:

- Best served with meals.
- Make a paste of the prescribed amount of powder with a small volume of chilled water. Gradually add sufficient water to make the desired volume.
- For best taste, consume immediately. Larger volumes of prepared formula should be refrigerated and used within 24 hours of preparation. Shake or stir prepared formula immediately before use.

#### Dilution Guidelines for Maxamum

| Dilution | Amount of Powder | Volume of Water           | Approx. PE |
|----------|------------------|---------------------------|------------|
| 1 to 7   | 35 g             | 245 mL (approx. 8 fl oz)  | 14 g       |
| 1 to 7   | 1 sachet (50 g)  | 350 mL (approx. 12 fl oz) | 20 g       |
| 1 to 5   | 35 g             | 175 mL (approx. 6 fl oz)  | 14 g       |
| 1 to 5   | 1 sachet (50 g)  | 250 mL (approx. 8 fl oz)  | 20 g       |

- It is recommended that Maxamum be prepared at a 1 to 7 dilution initially and advanced to a 1 to 5 dilution. These dilutions are guidelines only. May be given in a more concentrated form (e.g. drink or paste). If so, water or diluted drinks should be offered at the same time.

### Precautions:

- Must only be given under strict medical supervision to patients with proven phenylketonuria. Not intended for children under one year of age. Not suitable as the sole source of nutrition. Not for parenteral use.

### Storage:

- Store unopened cans/sachets at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month.

## PhenylAde®

Formulas for the dietary management of phenylketonuria (PKU) in children and adults, including pregnant women and woman of child-bearing age.

### Administration:

- Use only under the direction of a physician or dietitian. PhenylAde must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet the phenylalanine and general nutrient requirements.

### Mixing Instructions:

- Add prescribed amount of PhenylAde Powder to cold water, shake or stir until completely mixed together.
- Dilution may be adjusted to taste. See recommended dilution below for a guideline.
- Once prepared, store formula in a refrigerator for no more than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.
- Do not heat, bake or add to food or beverages above 130°F.

### Recommended Dilution:

- PhenylAde Essential Drink Mix**  
Add contents of 1 scoop or pouch (40 g) to approx. 7 fl oz (210 mL) of cold water.
- PhenylAde GMP Drink Mix**  
Add contents of 1 scoop or pouch (33.3 g) to approx. 5-6 fl oz (150-180 mL) of cold water.
- PhenylAde GMP READY**  
Shake well before use. Best served chilled or at room temperature.

- PhenylAde GMP Mix-In**

Add contents of 1 pouch or scoop (12.5 g) to approx. 6-8 fl oz (180-240 mL) of cold water or a flavored (protein-free) beverage.

- PhenylAde40 Drink Mix**

Add contents of 1 pouch (25 g) to approx. 4-6 fl oz (120-180 mL) of cold water.

- PhenylAde60 Drink Mix**

Add contents of 1 scoop or pouch (16.7 g) to approx 3 fl oz (90 mL) of cold water.

- PhenylAde Amino Acid Blends**

Simply add one serving to single portion of low protein food, beverage or other PKU formula. The appropriate serving size must be established and consumed to meet prescribed amino acid protein requirements. Not intended to be added to plain water.

### Precautions:

- Must be consumed by individuals with proven phenylketonuria. Not intended for infants. Not intended as the sole source of nutrition. Not for parenteral use.

### Storage:

- Store unopened can at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month of opening for all PhenylAde products except PhenylAde GMP Drink Mix and PhenylAde GMP READY. PhenylAde GMP Drink Mix must be used within 2 weeks after being opened. PhenylAde GMP READY must be used immediately or refrigerated promptly once opened. Use within 24 hours.

## Phlexy-10®

An interchangeable system of phenylalanine-free medical foods for the dietary management of phenylketonuria (PKU) in individuals over 1 year of age, including pregnant women and women of child-bearing age.

### Administration:

- The Phlexy-10 products must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet phenylalanine and general nutrition requirements. Fat, carbohydrate and low protein sources may be used to supply needed calories and to fulfill essential fatty acid requirements.
- Intake of the Phlexy-10 products will vary depending on the age, body weight and medical condition of the individual. Intake is adjusted to maintain normal growth and development. One packet of the drink mix or 10 tablets provide 10 g of amino acids, equivalent to 8.33 g of protein.
- The Phlexy-10 products do not contain vitamins, minerals, or trace elements. It is essential that these nutrients are supplied separately. Phlexy-Vits (see separate product listing) are available to be used as a supplement to the Phlexy-10 System. One 7 g packet supplies the majority of vitamins and minerals needed to meet the RDA of individuals 11 years and older.

### Mixing Instructions:

- Phlexy-10 Drink Mix:** Mix the contents of one packet with a small amount of water, stirring into a thick paste. Continue stirring while adding water to make up a final volume of approximately 100 mL (~3.5 fl oz). Once prepared, store formula in a refrigerator for no longer than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.
- Phlexy-10 Tablets:** Should be taken with water or a non-phenylalanine-containing beverage.

### Precautions:

- Must only be given under strict medical supervision to patients with proven phenylketonuria. Not intended for use as the sole source of nutrition. Not intended for infants under 1 year of age. Not for parenteral use.

### Storage:

- Phlexy-10 Drink Mix and Tablets should be stored in a cool, dry place. Once Phlexy-10 Tablets are opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month.

## PhenylAde® PheBLOC™ LNAA and Lanaflex®

Phenylalanine-free powdered medical foods containing the remaining essential amino acids (large neutral amino acids and lysine). For the dietary management of phenylketonuria (PKU) in individuals over 12 years of age.

### Administration:

- Use only under the direction of a physician or dietitian. The product must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet phenylalanine and general nutrition requirements.
- Intake of the product is dependent on the age, bodyweight and medical condition of the individual.

### Mixing Instructions:

#### Lanaflex

- It is recommended that the product is prepared at an approximate 1 to 4 dilution. In a screw-top container, add 60 mL (2 fl oz) of chilled water. Add the contents of one sachet and shake well until dissolved. The product is best consumed immediately.
- If taken in a more concentrated form, water or diluted drinks should be consumed immediately afterwards.
- Opened sachets should be stored in an airtight container and used within 24 hours.

#### PhenylAde PheBLOC LNAA

- Add contents of 1 pouch (3 g) to ~1/2 cup of any semi-solid food (i.e., applesauce, mashed potatoes, pudding, sorbet, etc).

### Precautions:

- Must only be consumed by individuals with proven phenylketonuria. Suitable for individuals over 12 years of age. Not suitable as the sole source of nutrition. Not for parenteral use.
- **Not for use when planning or during pregnancy.**
- **Seek medical advice before using with serotonergic medications or any kind of psychotropic medications.**

### Storage:

- Store unopened sachets in a cool, dry place.

Visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com) for guidelines on the usage of PhenylAde PheBLOC LNAA, and guidelines for the usage of Lanaflex in the dietary management of PKU

## Lophlex® Powder and Lophlex® LQ

A low volume, amino acid-based medical food for the dietary management of metabolic disorders in children and adults, including pregnant women and women of child-bearing age.

### Administration:

- Use only under the direction of a physician or dietitian. Lophlex and Lophlex LQ must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet amino acid and general nutrition requirements. Fat, carbohydrate and low protein sources may be used to supply needed calories and to fulfill essential fatty acid requirements.
- Intake of Lophlex and Lophlex LQ will vary depending on the age, body weight and medical condition of the individual. Intake is adjusted to maintain normal growth and development. Lophlex and Lophlex LQ should be divided into equal portions and distributed throughout the day.

### Preparation (Lophlex LQ)

- Lophlex LQ is ready-to-drink and tastes best when served chilled. Shake vigorously before use.

### Mixing Instructions (Lophlex):

- Mix the contents of one sachet with a small amount of water to make a paste. Continue stirring

while adding water to make up a final volume of approximately 70 mL (2.5 fl oz). This would be a 1 to 5 dilution. Lophlex may be taken in a more concentrated form, either as a drink or paste. If so, water or diluted drinks should be offered at the same time. Lophlex is best prepared with chilled water and after preparation. Larger volumes of prepared formula should be refrigerated and used within 24 hours of preparation. Shake or stir prepared formula immediately before use.

### Precautions:

- Must only be given under strict medical supervision in individuals with a proven metabolic disorder. Not intended as a sole source of nutrition. Not for parenteral use.

### Storage:

- Store in a cool, dry place, below 86°F (not in the refrigerator) and away from sunlight.

### Recommended Dilution

- TYR Lophlex GMP Mix-In  
Add contents of 1 pouch (12.5 g) to approx. 6-8 fl oz (180-240 mL) of refrigerated flavored drink.

## Complex MSD: Junior, Essential and Amino Acid Blend

Medical foods for the dietary management of Maple Syrup Urine Disease (MSUD) in children and adults, including pregnant women and woman of child-bearing age.

### Administration:

- Use only under the direction of a physician or dietitian. Complex must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet the branched-chain and general nutrient requirements.

### Mixing Instructions:

- Add prescribed amount of Complex Powder to cold water, shake or stir until completely mixed together.
- Dilution may be adjusted to taste. See recommended dilution below for a guideline.
- Once prepared, store formula in a refrigerator for no more than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.
- Do not heat, bake or add to food or beverages above 130°F.

### Recommended Dilution:

- Complex Junior MSD Drink Mix**

Dilution of approx. 20 calories per 1 fl oz (30 mL)

| To Make Approx.  | Water            | Amount of Powder |
|------------------|------------------|------------------|
| 2 fl oz (60 mL)  | 2 fl oz (60 mL)  | 8.5 g            |
| 4 fl oz (120 mL) | 4 fl oz (120 mL) | 17 g             |
| 6 fl oz (180 mL) | 6 fl oz (180 mL) | 26 g             |
| 8 fl oz (240 mL) | 8 fl oz (240 mL) | 34 g             |

1 level, unpacked scoop provides approx. 8.5 g of powder. For better accuracy use a gram scale.

Dilution of approx. 30 calories per 1 fl oz (30 mL)

| To Make Approx.  | Water            | Amount of Powder |
|------------------|------------------|------------------|
| 2 fl oz (60 mL)  | 2 fl oz (60 mL)  | 12.2 g           |
| 4 fl oz (120 mL) | 4 fl oz (120 mL) | 24.3 g           |
| 6 fl oz (180 mL) | 6 fl oz (180 mL) | 36.5 g           |
| 8 fl oz (240 mL) | 8 fl oz (240 mL) | 48.6 g           |

- Complex Essential MSD Drink Mix**

Add contents of 1 scoop (40 g) to approx. 7 fl oz (210 mL) of cold water.

- Complex MSD Amino Acid Blend**

Simply add one serving to single portion of low protein food, beverage or other MSUD formula. The appropriate serving size must be established and consumed to meet prescribed amino acid protein requirements. Not intended to be added to plain water.

### Precautions:

- Must be consumed by individuals with proven maple syrup urine disease. Not intended for infants. Not intended as the sole source of nutrition. Not for parenteral use.

### Storage:

- Store unopened can at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month of opening.

## GlutarAde™ GA-1: Junior, Essential and Amino Acid Blend

Medical foods for the dietary management of Glutaric Aciduria Type 1 (GA-1) in children and adults, including pregnant women and woman of child-bearing age.

### Administration:

- Use only under the direction of a physician or dietitian. GlutarAde must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet the lysine and general nutrient requirements.

### Mixing Instructions:

- Add prescribed amount of GlutarAde Powder to cold water, shake or stir until completely mixed together.
- Dilution may be adjusted to taste. See recommended dilution below for a guideline.
- Once prepared, store formula in a refrigerator for no more than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.
- Do not heat, bake or add to food or beverages above 130°F.

### Recommended Dilution

- GlutarAde Junior GA-1 Drink Mix**

Dilution of approx. 20 calories per 1 fl oz (30 mL)

| To Make Approx.  | Water            | Amount of Powder |
|------------------|------------------|------------------|
| 2 fl oz (60 mL)  | 2 fl oz (60 mL)  | 9.8 g            |
| 4 fl oz (120 mL) | 4 fl oz (120 mL) | 19.5 g           |
| 6 fl oz (180 mL) | 6 fl oz (180 mL) | 29 g             |
| 8 fl oz (240 mL) | 8 fl oz (240 mL) | 39 g             |

1 level, unpacked scoop provides approx. 9.8 g of powder. For better accuracy use a gram scale.

Dilution of approx. 30 calories per 1 fl oz (30 mL)

| To Make Approx.  | Water            | Amount of Powder |
|------------------|------------------|------------------|
| 2 fl oz (60 mL)  | 2 fl oz (60 mL)  | 14.7 g           |
| 4 fl oz (120 mL) | 4 fl oz (120 mL) | 29.4 g           |
| 6 fl oz (180 mL) | 6 fl oz (180 mL) | 44.1 g           |
| 8 fl oz (240 mL) | 8 fl oz (240 mL) | 58.8 g           |

- GlutarAde GA-1 Essential Drink Mix**

Add contents of 1 scoop (40g) to approx. 7 fl oz (210 mL) of cold water.

- GlutarAde GA-1 Amino Acid Blend**

Simply add one serving to single portion of low protein food, beverage or other GA-1 formula. The appropriate serving size must be established and consumed to meet prescribed amino acid protein requirements. Not intended to be added to plain water.

### Precautions:

- Must be consumed by individuals with proven glutaric aciduria type 1. Not intended for infants. Not intended as the sole source of nutrition. Not for parenteral use.

### Storage:

- Store unopened can at room temperature. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month of opening.



## UCD Anamix® Junior

Medical food for the dietary management of urea cycle disorders in individuals over 1 year of age.

### Administration:

- Must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet protein and general nutrition requirements.
- Recommended intake of UCD Anamix Junior is dependent on age, body weight and medical condition of the individual. Intake is adjusted to maintain normal growth and development. For accuracy, weigh on a gram scale. The daily intake should be divided into equal portions and distributed throughout the day.
- UCD Anamix Junior is intended for patients over 1 year of age, including pregnant women and women of child-bearing age.

### Mixing Instructions:

- Best served chilled with meals.
- Pour the required volume of cold water into a glass or cup.
- Add the prescribed amount of UCD Anamix Junior powder to the water and stir. For accuracy it is recommended to use a gram scale.

Visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com) for a practical guide for the use of UCD Anamix Junior.

- It is recommended that UCD Anamix Junior be prepared at a 1 to 3.5 dilution. This dilution is a guideline only. An alternative dilution may be recommended by a clinician or dietitian (e.g. drink or paste). If given in a more concentrated form, water or diluted drinks should be offered at the same time.
- Once prepared, store formula in a refrigerator for no longer than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.

### Dilution Guidelines for UCD Anamix Junior

| Dilution | Amount of Powder | Volume of Water          | Approx. PE |
|----------|------------------|--------------------------|------------|
| 1 to 3.5 | 50 g (10 scoops) | 175 mL (approx. 6 fl oz) | 6.0 g      |

### Precautions:

- Must only be given under strict medical supervision to patients with proven urea cycle disorders. Not intended for children under one year of age. Not suitable as the sole source of nutrition. Not for parenteral use.

### Storage:

- Store unopened cans in a cool, dry place. Do not store at extreme temperatures. Once opened, reseal can and store in a cool, dry place (not in refrigerator) and use within one month.



**LOW PROTEIN  
FOODS**



Find more information and resources on these and all of our products at [www.NutriciaLearningCenter.com](http://www.NutriciaLearningCenter.com)



## Loprofin, Milupa and Low Protein Foods

A line of low protein foods including cake mix, pasta, rice, cereals, drink mix, crackers and more


### Main Features:

- A wide range of products to add variety to a protein-restricted diet

### Indications:

- Dietary management of inherited metabolic disorders
- Renal or liver failure requiring a low protein diet
- Other medical conditions where a low protein diet is indicated

For more information, visit [www.MedicalFood.com](http://www.MedicalFood.com)



**Nathan**  
Diagnosed with  
intractable epilepsy

## KETOGENIC DIET



## KetoCal® 3:1 Powder

A nutritionally complete, ketogenic formula in a 3:1 ratio (fat:carbohydrate + protein) for the dietary management of refractory epilepsy and other epilepsy-related conditions where the ketogenic diet is indicated; designed for individuals over 1 year of age. A medical food.

### Main Features:

- Nutritionally complete
- 3:1 ratio
- DHA and ARA
- Unflavored
- Appropriate for enteral or oral feedings
- No artificial sweeteners
- 0 g of *trans* fat
- Nutrient dense for children with low energy requirements
- Standard dilution = 1 kcal/mL
- Osmolality (at 1 kcal/mL)  
150 mOsm/kg
- Energy distribution:
 

|                |       |
|----------------|-------|
| Protein        | 8.8%  |
| Carbohydrate   | 4.1%  |
| Fat (LCT 100%) | 87.1% |
- Displacement  
1 mL/g

### Indications:

- Refractory or intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
  - Glucose transporter type-1 deficiency syndrome (GLUT1)
  - Pyruvate dehydrogenase deficiency (PDH)
  - Dravet syndrome
  - Super Refractory Status Epilepticus (SRSE)

For details on administration, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code | Product Packaging | Calories Per Can |
|--------------|--------------------|------------|-------------------|------------------|
| 16672        | 49735-0166-72      | B4154      | 6 x 300 g (11 oz) | 2097             |

**WIC<sup>†</sup>:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

| Nutrients                       | Per 100 g  | Per 100 kcal* | Minerals            | Per 100 g  | Per 100 kcal* |
|---------------------------------|------------|---------------|---------------------|------------|---------------|
| Calories                        | 699        | 100           | Calcium, mg         | 760        | 109           |
| Protein, g                      | 15.3       | 2.2           | Phosphorus, mg      | 510        | 73.0          |
| Carbohydrate, g                 | 7.2        | 1.0           | Magnesium, mg       | 95.0       | 13.6          |
| Fat, g                          | 67.7       | 9.7           | Iron, mg            | 10.9       | 1.6           |
| Saturated, g                    | 25.5       | 3.6           | Zinc, mg            | 7.4        | 1.1           |
| Monounsaturated, g              | 22.3       | 3.2           | Manganese, mg       | 0.57       | 0.08          |
| Polyunsaturated, g              | 16.6       | 2.4           | Copper, mcg         | 760        | 109           |
| Linoleic Acid, mg               | 12700      | 1817          | Iodine, mcg         | 124        | 17.7          |
| $\alpha$ -Linoleic Acid, mg     | 1270       | 182           | Molybdenum, mcg     | 31.3       | 4.5           |
| DHA, mg                         | 116        | 16.6          | Chromium, mcg       | 26.2       | 3.7           |
| ARA, mg                         | 116        | 16.6          | Selenium, mcg       | 18.9       | 2.7           |
| <b>Vitamins</b>                 |            |               | Sodium, mg (mEq)    | 287 (12.5) | 41.0 (1.8)    |
| Vitamin A, IU (mcg RE)          | 1748 (525) | 250 (75.1)    | Potassium, mg (mEq) | 900 (23.1) | 129 (3.3)     |
| Vitamin D, IU (mcg)             | 508 (12.7) | 72.7 (1.8)    | Chloride, mg (mEq)  | 440 (12.6) | 62.9 (1.8)    |
| Vitamin E, IU (mg $\alpha$ -TE) | 11.8 (7.9) | 1.7 (1.1)     | L-Carnitine, mg     | 48.0       | 4.6           |
| Vitamin K, mcg                  | 55.9       | 8.0           | Taurine, mg         | 48.0       | 4.6           |
| Thiamin, mg                     | 0.89       | 0.13          |                     |            |               |
| Riboflavin, mg                  | 0.70       | 0.10          |                     |            |               |
| Vitamin B6, mg                  | 0.70       | 0.10          |                     |            |               |
| Vitamin B12, mcg                | 1.4        | 0.20          |                     |            |               |
| Niacin, mg                      | 4.9        | 0.70          |                     |            |               |
| Folic Acid, mcg                 | 140        | 20.0          |                     |            |               |
| Pantothenic Acid, mg            | 2.8        | 0.40          |                     |            |               |
| Biotin, mcg                     | 13.9       | 2.0           |                     |            |               |
| Vitamin C, mg                   | 84.0       | 12.0          |                     |            |               |
| Choline, mg                     | 180        | 25.8          |                     |            |               |
| Inositol, mg                    | 153        | 21.9          |                     |            |               |

\*Standard Dilution = 30 kcal/fl oz

### Ingredients:

Refined Vegetable Oils (Palm, Soy, Sunflower), Milk Protein (Casein, Whey), Lactose (Milk), Tricalcium Phosphate, Tripotassium Citrate, Corn Syrup Solids, Potassium Chloride, Calcium Phosphate Dibasic, Magnesium Acetate, Choline Bitartrate, L-Cystine, *M. Alpina* Oil\*, *C. Cohnii* Oil\*\*, L-Tryptophan, M-Inositol, Ferrous Sulfate, Sodium Caseinate (Milk), Sodium Chloride, Sodium Ascorbate, L-Ascorbic Acid, L-Carnitine, Taurine, Mono and Diglycerides, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Niacinamide, Soy Lecithin, Calcium D-Pantothenate, Cupric Sulfate, Manganese Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Potassium Iodide, Folic Acid, Ascorbyl Palmitate, Mixed Tocopherols, Chromium Chloride, Sodium Molybdate, Phylloquinone, Sodium Selenite, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Contains: Milk, Soy**

\*A Source of Arachidonic Acid (ARA)

\*\*A Source of Docosahexaenoic Acid (DHA)



## KetoCal® 4:1 Powder

A nutritionally complete, ketogenic formula in a 4:1 ratio (fat:carbohydrate + protein) for the dietary management of refractory epilepsy and other epilepsy-related conditions where the ketogenic diet is indicated; designed for individuals over 1 year of age. A medical food.

### Main Features:

- Nutritionally complete
- 4:1 ratio
- DHA and ARA
- Vanilla flavor
- Appropriate for enteral or oral feedings
- Contains a multi-fiber blend
- Contains sucralose
- 0 g of *trans* fat
- Nutrient dense for children with low energy requirements
- Standard dilution = 1 kcal/mL
- Osmolality (at 1 kcal/mL): 170 mOsm/kg
- Energy distribution:
 

|                |       |
|----------------|-------|
| Protein        | 8.2%  |
| Carbohydrate   | 3.5%  |
| Fiber          | 1.5%  |
| Fat (LCT 100%) | 88.3% |
- Displacement 1 mL/g

### Indications:

- Refractory or intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
  - Glucose transporter type-1 deficiency syndrome (GLUT1)
  - Pyruvate dehydrogenase deficiency (PDH)
  - Dravet syndrome
  - Super Refractory Status Epilepticus (SRSE)

For details on administration, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code | Product Packaging | Calories Per Can |
|--------------|--------------------|------------|-------------------|------------------|
| 101777       | 49735-0166-70      | B4154      | 6 x 300 g (11 oz) | 2115             |

**WIC<sup>‡</sup>:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

| Nutrients                         | Per 100 g   | Per 100 kcal | Minerals        | Per 100 g | Per 100 kcal |
|-----------------------------------|-------------|--------------|-----------------|-----------|--------------|
| Calories                          | 705         | 100          | Calcium, mg     | 700       | 99.3         |
| Protein, g                        | 14.4        | 2.0          | Phosphorus, mg  | 420       | 59.6         |
| Carbohydrate, g                   | 8.2         | 1.2          | Magnesium, mg   | 96.3      | 13.7         |
| Fiber, g                          | 5.3         | 0.75         | Iron, mg        | 7.0       | 0.99         |
| Soluble, g                        | 3.2         | 0.45         | Zinc, mg        | 3.6       | 0.51         |
| Insoluble, g                      | 2.1         | 0.30         | Manganese, mg   | 0.83      | 0.12         |
| Fat, g                            | 69.2        | 9.8          | Copper, mcg     | 500       | 71.0         |
| Saturated, g                      | 26.7        | 3.8          | Iodine, mcg     | 86.2      | 12.2         |
| Monounsaturated, g                | 22.8        | 3.2          | Molybdenum, mcg | 28.7      | 4.1          |
| Polyunsaturated, g                | 19.7        | 2.8          | Chromium, mcg   | 14.8      | 2.1          |
| Linoleic Acid, mg                 | 16200       | 2300         | Selenium, mcg   | 27.0      | 3.8          |
| $\alpha$ -Linolenic Acid, mg      | 1700        | 241          | Sodium, mg      | 481       | 68.2         |
| DHA, mg                           | 110         | 15.6         | Potassium, mg   | 771       | 109          |
| ARA, mg                           | 120         | 17.0         | Chloride, mg    | 726       | 103          |
| <b>Vitamins</b>                   |             |              | L-Carnitine, mg | 45.0      | 6.4          |
| Vitamin A, IU (mcg RE)            | 1232 (370)  | 175 (52.5)   | Taurine, mg     | 33.0      | 4.7          |
| Vitamin D <sub>3</sub> , IU (mcg) | 420 (10.5)  | 59.6 (1.5)   |                 |           |              |
| Vitamin E, IU (mg $\alpha$ -TE)   | 15.9 (10.7) | 2.3 (1.5)    |                 |           |              |
| Vitamin K, mcg                    | 31.0        | 4.4          |                 |           |              |
| Thiamin, mg                       | 0.89        | 0.13         |                 |           |              |
| Riboflavin, mg                    | 0.70        | 0.10         |                 |           |              |
| Vitamin B <sub>6</sub> , mg       | 0.70        | 0.10         |                 |           |              |
| Vitamin B <sub>12</sub> , mcg     | 1.3         | 0.18         |                 |           |              |
| Niacin, mg                        | 4.9         | 0.70         |                 |           |              |
| Folic Acid, mcg                   | 116         | 16.5         |                 |           |              |
| Pantothenic Acid, mg              | 2.9         | 0.41         |                 |           |              |
| Biotin, mg                        | 0.0191      | 0.0027       |                 |           |              |
| Vitamin C, mg                     | 40.0        | 5.7          |                 |           |              |
| Choline, mg                       | 320         | 45.5         |                 |           |              |
| Inositol, mg                      | 19.1        | 2.7          |                 |           |              |

\* Standard Dilution = 1 kcal/mL  
Fiber is not included in calculating the ketogenic ratio

### Ingredients:

Refined Vegetable Oils (Palm, Soy, High Oleic Sunflower), Casein (Milk), Soy Lecithin, Whey (Milk), Microcrystalline Cellulose, Chicory Root Inulin, Calcium Carbonate, Corn Syrup Solids, Fructooligosaccharide (FOS), Silicon Dioxide, Gum Arabic, Tripotassium Citrate, Potassium Chloride, Sodium Chloride, Calcium Phosphate Tribasic, High Amylose Corn Starch, Artificial Flavor (Vanilla), L-Arginine, L-Cystine, Choline Bitartrate, M. Alpina Oil\*, C. Cohnii Oil\*\*, Soy Fiber, L-Tryptophan, Magnesium Oxide, Sodium Caseinate (Milk), Sodium Ascorbate, L-Phenylalanine, Maltodextrin, L-Ascorbic Acid, L-Valine, L-Tyrosine, L-Carnitine, Taurine, Ferrous Sulfate, Mono- and Diglycerides, DL-alpha Tocopheryl Acetate, Sucralose§, M-Inositol, L-Histidine, Zinc Sulfate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Mixed Tocopherols, Folic Acid, Potassium Iodide, Sodium Molybdate, Chromium Chloride, Sodium Selenite, Phylloquinone, D-Biotin, Cholecalciferol, Cyanocobalamin.

**Contains: Milk, Soy**

\* A source of Arachidonic Acid (ARA)

\*\* A source of Docosahexaenoic Acid (DHA)

§ Contains sucralose 14.2 mg/100 mL



## KetoCal® 4:1 LQ

A nutritionally complete, ready-to-feed ketogenic formula in a 4:1 ratio (fat:carbohydrate + protein) for the dietary management of refractory epilepsy and other epilepsy-related conditions where the ketogenic diet is indicated; designed for individuals over 1 year of age. A medical food.

### Main Features:

- Nutritionally complete
- 4:1 ratio
- DHA and ARA
- Great vanilla flavor or unflavored
- Convenient ready-to-feed liquid
- Appropriate for enteral or oral feedings
- Contains a multi-fiber blend
- Contains sucralose
- 0 g of *trans* fat
- Nutrient dense for children with low energy requirements
- Osmolality (at 1.5 kcal/mL):  
Vanilla 260 mOsm/kg  
Unflavored 280 mOsm/kg
- Energy distribution:  
Protein 8.2%  
Carbohydrate 3.1%  
Fiber 1.5%  
Fat (LCT 100%) 88.7%  
Free water 77.8%  
Density 1.01g/mL

### Indications:

- Refractory or intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
  - Glucose transporter type-1 deficiency syndrome (GLUT1)
  - Pyruvate dehydrogenase deficiency (PDH)
  - Dravet syndrome
  - Super Refractory Status Epilepticus (SRSE)

For details on administration, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code       | Reimbursement Code | HCPCS Code | Product Packaging     | Calories Per Drink Box |
|--------------------|--------------------|------------|-----------------------|------------------------|
| 80180 – Vanilla    | 49735-0187-96      | B4154      | 27 x 237 mL (8 fl oz) | 356                    |
| 80183 – Unflavored | 49735-0130-54      | B4154      | 27 x 237 mL (8 fl oz) | 356                    |

**WIC\*:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

| Nutrients               | Per 100 mL | Per Drink Box (237 mL) | Minerals, Trace Elements | Per 100 mL | Per Drink Box (237 mL) |
|-------------------------|------------|------------------------|--------------------------|------------|------------------------|
| Calories                | 150        | 356                    | Calcium, mg              | 88.4       | 210                    |
| Protein, g              | 3.09       | 7.32                   | Phosphorus, mg           | 88.4       | 210                    |
| Carbohydrate, g         | 1.73       | 4.10                   | Magnesium, mg            | 22.7       | 53.8                   |
| Fiber, g                | 1.12       | 2.65                   | Iron, mg                 | 1.5        | 3.6                    |
| Soluble, g              | 0.56       | 1.33                   | Zinc, mg                 | 1.2        | 2.8                    |
| Insoluble, g            | 0.56       | 1.33                   | Manganese, mg            | 0.18       | 0.43                   |
| Fat, g                  | 14.8       | 35.1                   | Copper, mcg              | 120        | 284                    |
| Saturates, g            | 2.2        | 5.2                    | Iodine, mcg              | 18.5       | 43.8                   |
| Monounsaturates, g      | 8.3        | 19.7                   | Molybdenum, mcg          | 6.2        | 14.7                   |
| Polyunsaturates, g      | 3.7        | 8.8                    | Chromium, mcg            | 3.2        | 7.6                    |
| Linoleic Acid, mg       | 3228       | 7650                   | Selenium, mcg            | 7.1        | 16.8                   |
| α-Linolenic Acid, mg    | 313        | 741                    | Sodium, mg (mEq)         | 103 (4.5)  | 244 (10.6)             |
| DHA, mg                 | 55         | 131                    | Potassium, mg (mEq)      | 165 (4.2)  | 391 (10.02)            |
| ARA, mg                 | 55         | 131                    | Chloride, mg (mEq)       | 155 (4.4)  | 367 (10.4)             |
|                         |            |                        | L-Carnitine, mg          | 8.3        | 19.7                   |
|                         |            |                        | Taurine, mg              | 6.3        | 14.9                   |
| <b>Vitamins</b>         |            |                        |                          |            |                        |
| Vitamin A, IU (mcg RE)  | 264 (79.2) | 626 (188)              |                          |            |                        |
| Vitamin D, IU (mcg)     | 92.0 (2.3) | 220 (5.5)              |                          |            |                        |
| Vitamin E, IU (mg α-TE) | 2.3 (1.5)  | 5.5 (3.6)              |                          |            |                        |
| Vitamin K, mcg          | 5.6        | 13.3                   |                          |            |                        |
| Thiamin, mg             | 0.19       | 0.45                   |                          |            |                        |
| Riboflavin, mg          | 0.15       | 0.36                   |                          |            |                        |
| Vitamin B6, mg          | 0.15       | 0.36                   |                          |            |                        |
| Vitamin B12, mcg        | 0.17       | 0.40                   |                          |            |                        |
| Niacin, mg              | 1.5        | 3.6                    |                          |            |                        |
| Folic Acid, mcg         | 28.7       | 68.0                   |                          |            |                        |
| Pantothenic Acid, mg    | 0.62       | 1.5                    |                          |            |                        |
| Biotin, mcg             | 4.1        | 9.7                    |                          |            |                        |
| Vitamin C, mg           | 9.3        | 22.0                   |                          |            |                        |
| Choline, mg             | 51.5       | 122                    |                          |            |                        |
| Inositol, mg            | 4.1        | 9.7                    |                          |            |                        |

Fiber is not included in calculating the ketogenic ratio.

### Ingredients:

Water, Refined Vegetable Oil (High Oleic Sunflower, Soy, Palm), Sodium Caseinate (Milk), Whey Protein Concentrate (Milk), Soy Fiber, Corn Starch, Inulin, CITREM, Dipotassium Phosphate, Gum Arabic, Calcium Chloride, M. Alpina Oil\*, Magnesium Acetate, Potassium Chloride, C. Cohnii Oil\*\*, Microcrystalline Cellulose, Fructooligosaccharide, L-Ascorbic Acid, Calcium Phosphate Monobasic, Mono and Diglycerides, Trisodium Citrate, Sodium Hydroxide, Choline Chloride, L-Cystine, Calcium Phosphate Dibasic, Propylene Glycol Alginate, Ferrous Lactate, L-Carnitine, Taurine, M-Inositol, L-Tryptophan, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Soy Lecithin, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Ascorbyl Palmitate, Cupric Sulfate, Thiamin Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Mixed Tocopherols, DL-Alpha Tocopherol, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D3, Cyanocobalamin.

**Contains: Milk, Soy**

**Unflavored** version also contains: Sugar.

**Vanilla** flavored version also contains: Artificial Flavor, Sugar, Artificial Sweetener: Sucralose, Sodium Hydroxide, Choline Chloride.

\* A Source of Arachidonic Acid (ARA)

\*\* A Source of Docosahexaenoic Acid (DHA)



## KetoCal® 2.5:1 LQ

A nutritionally complete, ready-to-feed ketogenic formula in a 2.5:1 ratio (fat:carbohydrate + protein) for the dietary management of refractory epilepsy and other epilepsy-related conditions where the ketogenic diet is indicated. Designed for individuals over 8 years of age. A medical food.

### Main Features:

- Nutritionally complete
- 2.5:1 ratio
- DHA
- MCT
- Great vanilla flavor
- Convenient ready-to-feed liquid
- Appropriate for enteral or oral feedings
- Contains a multi-fiber blend
- Contains sucralose
- 0 g of trans fat
- Nutrient dense for children with low energy requirements
- Osmolality (at 1.5 kcal/mL): 347mOsm/kg
- Energy distribution:
 

|                       |      |
|-----------------------|------|
| Protein               | 12%  |
| Carbohydrate          | 2.9% |
| Fiber                 | 1.5% |
| Fat (MCT 25% LCT 75%) | 84%  |
- Free water 76.7%
- Density 1.02 g/mL

### Indications:

- Refractory or intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
  - Glucose transporter type-1 deficiency syndrome (GLUT1)
  - Pyruvate dehydrogenase deficiency (PDH)
  - Dravet syndrome
  - Super Refractory Status Epilepticus (SRSE)

For details on administration, please see the end of this section.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code | Product Packaging    | Calories Per Drink Box |
|--------------|--------------------|------------|----------------------|------------------------|
| 137246       | 49735-01-7246      | B4154      | 27 x 237 mL (8fl oz) | 363                    |

For more reimbursement information see [Resources](#).

### Nutrition Information:

| Nutrients                         | Per Drink Box (237 mL) |                        | Minerals, Trace Elements | Per Drink Box (237 mL) |                        |
|-----------------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|
|                                   | Per 100 mL             | Per Drink Box (237 mL) |                          | Per 100 mL             | Per Drink Box (237 mL) |
| Calories                          | 153                    | 363                    | Calcium, mg              | 115                    | 273                    |
| Protein, g                        | 4.5                    | 10.7                   | Phosphorus, mg           | 90.0                   | 213                    |
| Carbohydrate, g                   | 2.2                    | 5.2                    | Magnesium, mg            | 26.0                   | 61.6                   |
| Dietary Fiber, g                  | 1.1                    | 2.6                    | Iron, mg                 | 1.4                    | 3.3                    |
| Soluble, g                        | 0.56                   | 1.3                    | Zinc, mg                 | 0.91                   | 2.2                    |
| Insoluble, g                      | 0.56                   | 1.3                    | Manganese, mcg           | 180                    | 427                    |
| Fat, g                            | 14.3                   | 33.9                   | Copper, mcg              | 120                    | 284                    |
| Saturated, g                      | 4.8                    | 11.4                   | Iodine, mcg              | 19.0                   | 45.0                   |
| Trans, g                          | 0.0                    | 0.0                    | Molybdenum, mcg          | 5.5                    | 13.0                   |
| Medium Chain Triglycerides, g     | 3.6                    | 8.5                    | Chromium, mcg            | 2.5                    | 5.9                    |
| Monounsaturated, g                | 8.0                    | 19.0                   | Selenium, mcg            | 5.4                    | 12.8                   |
| Polyunsaturated, g                | 1.5                    | 3.6                    | Sodium, mg               | 117                    | 277                    |
| DHA, mg                           | 58.2                   | 138                    | Potassium, mg            | 250                    | 593                    |
|                                   |                        |                        | Chloride, mg             | 207                    | 491                    |
|                                   |                        |                        | L-Carnitine, mg          | 8.3                    | 20.0                   |
|                                   |                        |                        | Taurine, mg              | 6.3                    | 14.9                   |
| <b>Vitamins</b>                   |                        |                        |                          |                        |                        |
| Vitamin A, IU (mcg RE)            | 300 (90.0)             | 710 (213)              |                          |                        |                        |
| Vitamin D <sub>3</sub> , IU (mcg) | 92.0 (2.3)             | 218 (5.5)              |                          |                        |                        |
| Vitamin E, IU (mg α-TE)           | 5.9 (4.0)              | 14.0 (9.5)             |                          |                        |                        |
| Vitamin K <sub>1</sub> , mcg      | 7.8                    | 18.5                   |                          |                        |                        |
| Thiamin, mg                       | 0.15                   | 0.36                   |                          |                        |                        |
| Riboflavin, mg                    | 0.15                   | 0.36                   |                          |                        |                        |
| Vitamin B <sub>6</sub> , mg       | 0.15                   | 0.36                   |                          |                        |                        |
| Vitamin B <sub>12</sub> , mcg     | 0.30                   | 0.71                   |                          |                        |                        |
| Niacin, mg                        | 1.8                    | 4.3                    |                          |                        |                        |
| Folic Acid, mcg                   | 29.0                   | 68.7                   |                          |                        |                        |
| Pantothenic Acid, mg              | 0.62                   | 1.5                    |                          |                        |                        |
| Biotin, mcg                       | 4.1                    | 9.7                    |                          |                        |                        |
| Vitamin C, mg                     | 9.4                    | 22.3                   |                          |                        |                        |
| Choline, mg                       | 52.0                   | 123                    |                          |                        |                        |
| Inositol, mg                      | 4.1                    | 9.7                    |                          |                        |                        |

Fiber is not included in calculating the ketogenic ratio.

### Ingredients:

Water, Refined Vegetable Oil (High Oleic Sunflower Oil, Medium Chain Triglycerides (Palm Kernel And/OR Coconut Oil), Soy Oil), Sodium Caseinate (Milk), Whey Protein Concentrate (Milk), Sugar, Soy Fiber, Tripotassium Citrate, Corn Starch, Calcium Chloride, Inulin, CITREM, Artificial Flavors, Gum Arabic, Magnesium Acetate, Dipotassium Phosphate, C. Cohnii Oil\*, Microcrystalline Cellulose, Fructo-Oligosaccharides (FOS), Calcium Phosphate Monobasic, Potassium Chloride, Mono- And Diglycerides, Maltodextrin, Trisodium Citrate, Choline Chloride, Sodium Hydroxide, L-Cystine, L-Ascorbic Acid, Calcium Phosphate Tribasic, Sucralose\*\*, Propylene Glycol Alginate, L-Carnitine, Ferrous Lactate, Taurine, M-Inositol, L-Tryptophan, DL-Alpha Tocopheryl Acetate, Zinc Sulfate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Copper Sulfate, Thiamin Mononitrate, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Ascorbyl Palmitate, Mixed Tocopherols, Folic Acid, Potassium Iodide, Sodium Molybdate, Chromium Chloride, Phylloquinone, Sodium Selenite, D-Biotin, Cholecalciferol, Cyanocobalamin.

**Contains: Milk, Soy**

\* A Source of Docosahexaenoic Acid (DHA)

\*\*Contains Sucralose 43 mg/237 mL



## KetoCal® Family

### Directions for Preparation:

For oral and tube feeding:

#### KetoCal 3:1 and 4:1 Powders

1. Measure the required amount of warm water into a container that seals with a screw top lid. To completely dissolve the powder, the water must be at a temperature of 113-122°F (45-50°C).
2. Add the prescribed amount of KetoCal to the water.
3. Cover and shake until the powder has dissolved.
4. Once prepared, the formula should be stored in a refrigerator and kept no longer than 24 hours.

### Directions for Use:

- For oral feeding, best served chilled and consumed immediately.
- **Tube feeding hang time:** Nutricia recommends formula can be safely kept at room temperature for up to 4 hours, at which time unused formula should be discarded.
- It is recommended that the tube is flushed with lukewarm water (approximately 98°F or 37°C) between each feed.
- Do not boil or microwave formula.
- Do not freeze. Recommended storage between 39°F-77°F (4°C-25°C).
- Once powdered formula is prepared or liquid formula is open, use immediately or refrigerate promptly at 39°F/4°C or less and use within 24 hours.

### Mixing Guide:

#### KetoCal 4:1 Powder

Dilution to be determined by medical prescription:

| Dilution      | Powder | Water | Final Volume | Osmolality  |
|---------------|--------|-------|--------------|-------------|
| 20 kcal/fl oz | 9.5 g  | 91 mL | 100 mL       | 110 mOsm/kg |
| 24 kcal/fl oz | 11.4 g | 88 mL | 100 mL       | 130 mOsm/kg |
| 30 kcal/fl oz | 14.2 g | 86 mL | 100 mL       | 170 mOsm/kg |
| 45 kcal/fl oz | 21.3 g | 79 mL | 100 mL       | 260 mOsm/kg |

A gram scale is necessary for proper preparation of formula.

#### KetoCal 3:1 Powder

Dilution to be determined by medical prescription:

| Dilution      | Powder | Water | Final Volume | Osmolality  |
|---------------|--------|-------|--------------|-------------|
| 20 kcal/fl oz | 9.5 g  | 90 mL | 100 mL       | 100 mOsm/kg |
| 24 kcal/fl oz | 11.4 g | 89 mL | 100 mL       | 120 mOsm/kg |
| 30 kcal/fl oz | 14.3 g | 86 mL | 100 mL       | 150 mOsm/kg |
| 45 kcal/fl oz | 21.4 g | 79 mL | 100 mL       | 240 mOsm/kg |

A gram scale is necessary for proper preparation of formula.

### Storage:

Store unopened product in a cool, dry place and away from sunlight.

**KetoCal 3:1 and 4:1 Powders:** Once can has been opened, replace container lid and store in a cool, dry place (not in a refrigerator). Use within one month.

## Volume and Ordering Guide

| Calories/day | Calories/mo | KetoCal 4:1 Powder |          | KetoCal 3:1 Powder |          | KetoCal 4:1 LQ (Vanilla or Unflavored) |          | KetoCal 2.5:1 LQ |          |
|--------------|-------------|--------------------|----------|--------------------|----------|--|----------|------------------|----------|
|              |             | Cans/mo            | Cases/mo | Cans/mo            | Cases/mo | Drink Boxes/mo                         | Cases/mo | Drink Boxes/mo   | Cases/mo |
| 600          | 18000       | 9                  | 2        | 9                  | 2        | 51                                     | 2        | 50               | 2        |
| 700          | 21000       | 10                 | 2        | 11                 | 2        | 59                                     | 3        | 58               | 3        |
| 800          | 24000       | 12                 | 2        | 12                 | 2        | 68                                     | 3        | 66               | 3        |
| 900          | 27000       | 13                 | 3        | 13                 | 3        | 76                                     | 3        | 74               | 3        |
| 1000         | 30000       | 15                 | 3        | 15                 | 3        | 85                                     | 4        | 83               | 4        |
| 1100         | 33000       | 16                 | 3        | 16                 | 3        | 93                                     | 4        | 91               | 4        |
| 1200         | 36000       | 18                 | 3        | 18                 | 3        | 102                                    | 4        | 99               | 4        |
| 1300         | 39000       | 19                 | 4        | 19                 | 4        | 110                                    | 5        | 107              | 4        |
| 1400         | 42000       | 20                 | 4        | 21                 | 4        | 118                                    | 5        | 116              | 5        |
| 1500         | 45000       | 22                 | 4        | 22                 | 4        | 127                                    | 5        | 124              | 5        |
| 1600         | 48000       | 23                 | 4        | 23                 | 4        | 135                                    | 5        | 132              | 5        |
| 1700         | 51000       | 25                 | 5        | 25                 | 5        | 144                                    | 6        | 140              | 6        |
| 1800         | 54000       | 26                 | 5        | 26                 | 5        | 152                                    | 6        | 149              | 6        |
| 1900         | 57000       | 28                 | 5        | 28                 | 5        | 161                                    | 6        | 157              | 6        |
| 2000         | 60000       | 29                 | 5        | 29                 | 5        | 169                                    | 7        | 165              | 7        |

\*Number of cans and cases per month are rounded up to the nearest whole number.

### Caution:

- Monitor for hypoglycemia, renal stones, hyperlipidemia, and adequate growth.
- **USE ONLY UNDER STRICT MEDICAL SUPERVISION. NOT FOR PARENTERAL USE.**
- Intake to be determined by a medical professional and is dependent on the age, body weight, and medical condition of the patient.







**Meredith**  
Long-term care resident

## SPECIALIZED ADULT NUTRITION



Find more information and resources on these and all of our products at [www.NutriciaLearningCenter.com](http://www.NutriciaLearningCenter.com)



## Pro-Stat® Sugar Free

A sugar free, ready-to-drink liquid protein medical food providing 15 g of enzyme-hydrolyzed complete protein and 100 calories per 1 fl oz.

### Main Features:

- Clinically supported in 3 published trials
  - Managing wounds (1 study)<sup>1</sup>
  - Improving anabolism (1 study)<sup>2</sup>
  - Preserving lean body mass (1 study)<sup>3</sup>
- Nutrient dense, providing 15 g of protein and 100 calories per 1 fl oz
- Hydrolyzed for rapid absorption & efficient utilization<sup>4</sup>
- High in conditionally indispensable amino acids needed for recovery<sup>5-10</sup>
- Sugar free
- Nectar-like viscosity
- Lactose free, gluten free, and soy free
- Kosher
- Available in 4 great tasting flavors
- Available in bottles (6/case) or unit doses (96/case)
- For oral and enteral use

### Indications:

- Increased protein needs in low volume related to:
  - Stage 1 & 2 pressure injuries
  - Wounds (diabetic, venous, surgical, burns)
  - Unintentional muscle loss
  - Protein-energy malnutrition
  - Low serum proteins
  - Sarcopenia
  - Dialysis
  - Fluid restricted

### Ordering/Reimbursement Information:

| Product Code                       | Reimbursement Code | HCPCS Code | Product Packaging | Calories Per Unit |
|------------------------------------|--------------------|------------|-------------------|-------------------|
| 10064 - Wild Cherry Punch (bottle) | 26974-0410-07      | B4155      | 6 x 30 fl oz      | 3000              |
| 30064 - Citrus Splash (bottle)     | 26974-0300-64      | B4155      | 6 x 30 fl oz      | 3000              |
| 40064 - Vanilla (bottle)           | 26974-0410-40      | B4155      | 6 x 30 fl oz      | 3000              |
| 50064 - Grape (bottle)             | 26974-0410-50      | B4155      | 6 x 30 fl oz      | 3000              |
| 10464-U - Wild Cherry Punch (unit) | 26974-0410-17      | B4155      | 96 x 1 fl oz      | 100               |
| 30464-U - Citrus Splash (unit)     | 26974-0304-64      | B4155      | 96 x 1 fl oz      | 100               |
| 40464-U - Vanilla (unit)           | 26974-0410-42      | B4155      | 96 x 1 fl oz      | 100               |
| 50464-U - Grape (unit)             | 26974-0410-52      | B4155      | 96 x 1 fl oz      | 100               |

- Lee SK, et al. *Adv Skin Wound Care*. 2006;19:92-6.
- Sundell MB, et al. *J Ren Nutr*. 2009;19:412-21.
- Hays NP, et al. *J Am Diet Assoc*. 2009;109:1082-7.
- Koopman R, et al. *Am J Clin Nutr*. 2009;90:106-15.
- Morris Jr, SM. *Annu Rev Nutr*. 1992;12:81-101.
- Curis E, et al. *Amino Acids*. 2005;29:177-205.
- Wu G, et al. *Biochem J*. 1992;281:45-8.
- Schwedhelm E, et al. *Br J Clin Pharmacol*. 2008;65:51-9.
- Waugh WH, et al. *Am J Hematol*. 1999;61:216.
- Waugh WH, et al. *J Natl Med Assoc*. 2001;93:363-71.

### Nutrition Information:

| Nutrients       | Per 30 mL (2 Tbsp) |
|-----------------|--------------------|
| Calories        | 100                |
| Protein, g      | 15                 |
| Fat, g          | 0                  |
| Carbohydrate, g | 10                 |
| <b>Minerals</b> |                    |
| Sodium, mg      | 50                 |
| Potassium, mg   | 20                 |
| Phosphorus, mg  | 50                 |

### Ingredients:

Hydrolyzed Collagen Protein, Water, Glycerin, Malic Acid. Contains 2% or less: Potassium Sorbate (to help protect flavor), Sodium Benzoate (to help protect flavor), Sucralose, L-Tryptophan, Phosphoric Acid.

**Wild Cherry Punch** flavored version of this product contains 2% or less of each of the following: Natural flavors.

**Citrus Splash, Grape and Vanilla** flavored versions of this product contains 2% or less of each of the following: Natural and Artificial flavors.

### Administration:

- Use under medical supervision
- Healthcare professionals should determine intake based on condition, estimated need, and dietary intake.
- Administer orally or through feeding tube.

### Suggested Intake:

- 1-3 servings per day.  
One serving = 1 fl oz.

### Oral Feeding:

- Shake well before opening. Can be taken straight or mixed with any hot or cold beverages or food.

### Tube Feeding:

- Flush feeding tube with 30-60 mL of water.
- Pour 30 mL of Pro-Stat in a 4-6 fl oz container.
- Add 30-60 mL water and mix well with disposable spoon or tongue blade.
- Administer Pro-Stat via syringe.
- Flush with 30-60 mL of water.

### Precautions:

- Do not add Pro-Stat to an open or closed system of the tube feeding formula or into a container of enteral feeding.
- Do not add medications to Pro-Stat, even after dilution.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

### Storage:

- Store at room temperature.
- Refrigeration causes gelling.
- Discard 3 months after opening.
- Record date opened on bottom of container.
- Do not use if seal is broken.



## Pro-Stat® Sugar Free AWC (Advanced Wound Care)

A sugar free ready-to-drink liquid protein medical food providing 17 g of enzyme-hydrolyzed complete protein and 100 calories per 1 fl oz, with added arginine, citrulline, cystine, vitamin C and zinc.

### Main Features:

- Clinically supported in 1 published trial to promote pressure injury and wound healing<sup>1</sup>
- Nutrient dense, providing 17 g of protein and 100 calories per 1 fl oz
- Contains added arginine, citrulline, cystine, vitamin C and zinc
- Hydrolyzed for rapid absorption & efficient utilization<sup>2</sup>
- High in conditionally indispensable amino acids needed for recovery<sup>3-8</sup>
- Sugar free
- Honey-like viscosity
- Lactose free, gluten free, and soy free
- Kosher
- Available in 2 great tasting flavors
- Available in bottles (4/case) or unit doses (96/case)
- For oral and enteral use

### Indications:

- Increased protein needs in low volume related to:
  - Stage 3 & 4 pressure injuries
  - Multiple pressure injuries
  - Hard to heal wounds (diabetic, venous, surgical, burns)
  - Unintentional muscle loss
  - Protein-energy malnutrition
  - Low serum proteins
  - Sarcopenia

### Ordering/Reimbursement Information:

| Product Code                       | Reimbursement Code | HCPCS Code | Product Packaging | Calories Per Unit |
|------------------------------------|--------------------|------------|-------------------|-------------------|
| 40130 - Wild Cherry Punch (bottle) | 26974-0410-30      | B4155      | 4 x 30 fl oz      | 3000              |
| 40230 - Citrus Splash (bottle)     | 26974-0410-23      | B4155      | 4 x 30 fl oz      | 3000              |
| 40130-U - Wild Cherry Punch (unit) | 26974-0410-31      | B4155      | 96 x 1 fl oz      | 100               |
| 40230-U - Citrus Splash (unit)     | 26974-0410-24      | B4155      | 96 x 1 fl oz      | 100               |

**1.** Lee SK, et al. *Adv Skin Wound Care*. 2006;19:92-6. **2.** Koopman R, et al. *Am J Clin Nutr*. 2009;90:106-15. **3.** Morris Jr, SM. *Annu Rev Nutr*. 1992;12:81-101. **4.** Curtis E, et al. *Amino Acids*. 2005;29:177-205. **5.** Wu G, et al. *Biochem J*. 1992;281:45-8. **6.** Schwedhelm E, et al. *Br J Clin Pharmacol*. 2008;65:51-9. **7.** Waugh WH, et al. *Am J Hematol*. 1999;61:216. **8.** Waugh WH, et al. *J Natl Med Assoc*. 2001;93:363-71.

### Nutrition Information:

| Nutrients       | Per 30 mL (2 Tbsp) |
|-----------------|--------------------|
| Calories        | 100                |
| Protein, g      | 17                 |
| L-Arginine, g   | 3.3                |
| Fat, g          | 0                  |
| Carbohydrate, g | 7                  |
| <b>Vitamins</b> |                    |
| Vitamin C, mg   | 175                |
| <b>Minerals</b> |                    |
| Zinc, mg        | 10                 |
| Sodium, mg      | 50                 |
| Potassium, mg   | 20                 |
| Phosphorus, mg  | 50                 |

### Ingredients:

Hydrolyzed Collagen Protein, Water, Glycerin, Malic Acid, L-Arginine. Contains 2% or less: L-Citrulline, L-Tryptophan, L-Cysteine HCL, Phosphoric Acid, Ascorbic Acid, Potassium Sorbate (to help protect flavor), Sodium Benzoate (to help protect flavor), Sucralose, Zinc Sulfate.

**Wild Cherry Punch** flavored version of this product contains 2% or less of each of the following: Natural flavors.

**Citrus Splash** flavored version of this product contains 2% or less of each of the following: Natural and Artificial Flavors.

### Administration:

- Use under medical supervision
- Healthcare professionals should determine intake based on condition, estimated need, and dietary intake.
- Administer orally or through feeding tube.

### Suggested Intake:

- 1-3 servings per day.  
One serving = 1 fl oz.

### Oral Feeding:

- Shake well before opening. Can be taken straight or mixed with any hot or cold beverages or food.

### Tube Feeding:

1. Flush feeding tube with 30-60 mL of water.
2. Pour 30 mL of Pro-Stat in a 4-6 fl oz container.
3. Add 30-60 mL water and mix well with disposable spoon or tongue blade.
4. Administer Pro-Stat via syringe.
5. Flush with 30-60 mL of water.

### Precautions:

- Do not add Pro-Stat to an open or closed system of the tube feeding formula or into a container of enteral feeding.
- Do not add medications to Pro-Stat, even after dilution.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

### Storage:

- Store at room temperature.
- Refrigeration causes gelling.
- Discard 3 months after opening.
- Record date opened on bottom of container.
- Do not use if seal is broken.



## Pro-Stat® MAX

A sugar free, hydrolyzed whey-based liquid protein medical food. 100% PDCAAS\* protein and 80 calories in 1 fl oz.

### Main Features:

- Nutrient dense, providing 11 g of 100%-PDCAAS\* protein and 80 calories in 1 fl oz to help meet high protein demands<sup>1</sup>
- Whey-based hydrolyzed complete protein
- Optimal amount of all 9 indispensable amino acids needed for efficient protein synthesis<sup>2-6</sup>
- Sugar free
- Nectar-like viscosity
- Gluten free and soy free
- Available in great tasting grape flavor
- Available in bottles (4/case) and unit doses (96/case)
- For oral and enteral use

### Indications:

- Increased protein needs in low volume related to:
  - Pressure injuries
  - Wounds (diabetic, venous, surgical, burns)
  - Critical illness\*\*
  - Unintentional muscle loss
  - Protein-energy malnutrition
  - Low serum proteins
  - Sarcopenia
  - Pre- and post-surgery
  - Cancer

### Ordering/Reimbursement Information:

| Product Code           | Reimbursement Code | HCPCS Code | Product Packaging | Calories Per Unit |
|------------------------|--------------------|------------|-------------------|-------------------|
| 90001 - Grape (bottle) | 26974-0900-01      | B4155      | 4 x 30 fl oz      | 2400              |
| 90001-U - Grape (unit) | 26974-1900-01      | B4155      | 96 x 1 fl oz      | 80                |

### Nutrition Information:

| Nutrients       | Per 30 mL (2 Tbsp) |
|-----------------|--------------------|
| Calories        | 80                 |
| Protein, g      | 11                 |
| Fat, g          | 0                  |
| Carbohydrate, g | 9                  |
| <b>Minerals</b> |                    |
| Sodium, mg      | 35                 |
| Potassium, mg   | 40                 |
| Phosphorus, mg  | 60                 |
| Calcium, mg     | 60                 |

### Ingredients:

Water, Glycerin, Hydrolyzed Whey Protein, Hydrolyzed Collagen Protein, Malic Acid. Contains 2% or less: Natural & Artificial Flavor, Phosphoric Acid, L-Phenylalanine, L-Histidine, L-Tryptophan, L-Methionine, Sucralose, Potassium Sorbate (to help protect flavor), Sodium Benzoate (to help protect flavor).

Contains: Milk (Whey).

### Administration:

- Use under medical supervision.
- Healthcare professionals should determine intake based on condition, estimated need, and dietary intake.
- Administer orally or through feeding tube.

### Suggested Intake:

- 1-3 servings per day.  
One serving = 1 fl oz.

### Oral Feeding:

- Shake well before opening. Can be taken straight or mixed with any hot or cold beverages or food.

### Tube Feeding:

1. Flush feeding tube with 30-60 mL of water.
2. Shake well before opening unit dose or bottle.
3. Pour 30 mL of Pro-Stat MAX in a 4-6 fl oz container.
4. Add 30-60 mL water and mix well with disposable spoon or tongue blade.
5. Administer Pro-Stat MAX via syringe.
6. Flush with 30-60 mL of water.

### Precautions:

- Do not add Pro-Stat to an open or closed system of the tube feeding formula or into a container of enteral feeding.
- Do not add medications to Pro-Stat, even after dilution.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

### Storage:

- Store at room temperature.
- Refrigeration causes gelling.
- Discard 3 months after opening.
- Record date opened on bottom of container.
- Do not use if seal is broken.

\* PDCAAS = Protein Digestibility Corrected Amino Acid Score.

The Food and Agriculture Organization (FAO), World Health Organization (WHO), Institute of Medicine (IOM) and Food and Drug Administration (FDA) use this method for evaluating protein quality. PDCAAS rates the utilization and digestibility of protein.

\*\* ICU stay for >2-3 days.

1. McClave SA, et al. JPEN J Parenter Enteral Nutr. 2016;40:159-211. 2. Pennings B, et al. Am J Clin Nutr. 2011;93:997-1005. 3. Katsanos CS, et al. Nutr Res. 2008;28:651-8. 4. FAO/WHO Expert Consultation. FAO Food and Nutrition Paper. 1991;51. 5. Institute of Medicine of the National Academies. Dietary Reference Intakes for Energy, Carbohydrates, Fiber, Fat, Fatty Acids, Cholesterol, Protein, and Amino Acids (Macronutrients). 2005: 737. 6. Castellanos VH, et al. Nutr in Clin Prac. 2006;21:485-504.



## Pro-Stat® Renal Care

A sugar free, ready-to-drink liquid protein medical food providing 15 g of enzyme-hydrolyzed complete protein, 3 g of prebiotic fiber and 100 calories per 1 fl oz.

### Main Features:

- Clinically supported in 1 published trial to improve protein anabolism in hemodialysis patients<sup>1</sup>
- 15 g of complete protein and 3 g of prebiotic soluble fiber in 1 fl oz
- Hydrolyzed for rapid absorption and efficient utilization<sup>2</sup>
- High in conditionally indispensable amino acids needed for recovery<sup>3-8</sup>
- Low volume making it appropriate for fluid restricted
- Sugar free
- Honey-like viscosity
- Lactose free, gluten free, and soy free
- Kosher
- Available in great tasting tangerine flavor
- Available in bottles (6/case) or unit doses (96/case)
- For oral and enteral use

### Indications:

- Increased protein needs in low volume related to:
  - Pressure injuries
  - Wounds (diabetic, venous, surgical, burns)
  - Dialysis
  - Fluid restricted
  - Unintentional muscle loss
  - Protein-energy malnutrition
  - Low serum proteins
  - Sarcopenia
  - Inadequate protein & fiber intake

### Ordering/Reimbursement Information:

| Product Code               | Reimbursement Code | HCPCS Code | Product Packaging | Calories Per Unit |
|----------------------------|--------------------|------------|-------------------|-------------------|
| 60064 - Tangerine (bottle) | 26974-0410-64      | B4155      | 6 x 30 fl oz      | 3000              |
| 60064-U - Tangerine (unit) | 26974-0420-65      | B4155      | 96 x 1 fl oz      | 100               |

### Nutrition Information:

| Nutrients       | Per 30 mL (2 Tbsp) |
|-----------------|--------------------|
| Calories        | 100                |
| Protein, g      | 15                 |
| Fat, g          | 0                  |
| Carbohydrate, g | 6                  |
| Fiber, g        | 3                  |
| <b>Minerals</b> |                    |
| Sodium, mg      | 50                 |
| Potassium, mg   | 20                 |
| Phosphorus, mg  | 50                 |

### Ingredients:

Hydrolyzed Collagen Protein, Water, Glycerin, Polydextrose, Fructo-Oligosaccharides (FOS), Malic Acid. Contains 2% or Less: Natural & Artificial Flavor, Phosphoric Acid, L-Tryptophan, Sucralose, Potassium Sorbate (to help protect flavor), Sodium Benzoate (to help protect flavor).

### Administration:

- Use under medical supervision.
- Healthcare professionals should determine intake based on condition, estimated need, and dietary intake.
- Administer orally or through feeding tube.

### Suggested Intake:

- 1-3 servings per day.  
One serving = 1 fl oz.

### Oral Feeding:

- Shake well before opening. Can be taken straight or mixed with any hot or cold beverages or food.

### Tube Feeding:

1. Flush feeding tube with 30-60 mL of water.
2. Pour 30 mL of Pro-Stat in a 4-6 fl oz container.
3. Add 30-60 mL water and mix well with disposable spoon or tongue blade.
4. Administer Pro-Stat via syringe.
5. Flush with 30-60 mL of water.

### Precautions:

- Do not add Pro-Stat to an open or closed system of the tube feeding formula or into a container of enteral feeding.
- Do not add medications to Pro-Stat, even after dilution.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

### Storage:

- Store at room temperature.
- Refrigeration causes gelling.
- Discard 3 months after opening.
- Record date opened on bottom of container.
- Do not use if seal is broken.

1. Sundell MB, et al. *J Ren Nutr.* 2009;19:412-21. 2. Koopman R, et al. *Am J Clin Nutr.* 2009;90:106-15. 3. Morris Jr, SM. *Annu Rev Nutr.* 1992;12:81-101. 4. Curis E, et al. *Amino Acids.* 2005;29:177-205. 5. Wu G, et al. *Biochem J.* 1992;281:45-8. 6. Schwedhelm E, et al. *Br J Clin Pharmacol.* 2008;65:51-9. 7. Waugh WH, et al. *Am J Hematol.* 1999;61:216. 8. Waugh WH, et al. *J Natl Med Assoc.* 2001;93:363-71.



## UTI-Stat®

A ready-to-drink medical food providing cranberry concentrate with added ingredients (vitamin C, D-Mannose, fructo-oligosaccharides (FOS), and bromelain) in a 1 fl oz serving for urinary tract health.

### Main Features:

- Clinically supported in 2 published trials to manage urinary tract infections<sup>1-2</sup>
- Low in sugar (1 g sugar per serving)
- Thin viscosity
- Lactose free, gluten free, and soy free
- Kosher
- Available in cranberry flavor
- Available in bottles (4/case) or unit doses (96/case)
- For oral and enteral use

### Indications:

- Management of urinary tract infections
- Urinary tract health

### Ordering/Reimbursement Information:

| Product Code               | Reimbursement Code | HCPCS Code | Product Packaging | Calories Per Unit |
|----------------------------|--------------------|------------|-------------------|-------------------|
| 60001 - Cranberry (bottle) | 26974-0410-66      | B4104      | 4 x 30 fl oz      | 2100              |
| 60001-U - Cranberry (unit) | 26974-0410-67      | B4104      | 96 x 1 fl oz      | 70                |

### Nutrition Information:

| Nutrients  | Per 30 mL (2 Tbsp) |
|--|--------------------|
| Calories   | 70*                |
| Sugar, g   | 1                  |
| <b>Minerals</b>  |                    |
| Sodium, mg   | 15                 |
| Potassium, mg  | 20                 |
| Phosphorus, mg   | 0                  |
| <i>Proprietary Blend (Cranberry Concentrate, Ascorbic Acid, D-Mannose, FOS, Bromelain)</i> |                    |
| <i>*Glycerin provides a source of calories</i>   |                    |

### Ingredients:

Water, Glycerin, Proprietary Blend (Cranberry Concentrate, Ascorbic Acid, D-Mannose, Fructo-oligosaccharides (FOS), Bromelain). Contains 2 % or less: Sucralose, Acesulfame Potassium, Potassium Sorbate (to preserve flavor), Sodium Benzoate (to preserve flavor), Phosphoric Acid.

### Administration:

- Use under medical supervision.
- Administer orally or through feeding tube.

### Suggested Intake:

- 1-2 servings per day as needed. One serving = 1 fl oz.

### Oral Feeding:

- Can be taken straight or mixed with any hot or cold beverage.

### Tube Feeding:

1. Flush feeding tube with 30-60 mL water.
2. Measure and administer dose prescribed.
3. Administer UTI-Stat straight into the enteral tube.
4. Flush the tube with additional 30 mL water.

### Precautions:

- Not a substitute for antibiotics.
- This product is not intended for use as an analgesic.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

### Storage:

- Store at room temperature.
- Refrigeration not necessary.
- Discard 3 months after opening.
- Record date opened on bottom of container.
- Do not use if seal is broken.

1. Posthauer ME. The Director. 2008;16:13-6. 2. Efros M, et al. Urology. 2010;76:841-5.



## Diff-Stat®

A dietary supplement providing a blend of probiotics and a prebiotic that helps to promote intestinal health.†

### Main Features:

- Two probiotics and a prebiotic working to promote intestinal health†
  - *Saccharomyces boulardii*
  - *Bacillus coagulans*
  - Fructo-oligosaccharides
- Available in a convenient capsule or an unflavored powder pack
- No refrigeration required
- For oral and enteral use

### Helps Promote:

- Intestinal health†

### Ordering/Reimbursement Information:

| Product Code                       | Reimbursement Code | Product Packaging | Calories Per Unit |
|------------------------------------|--------------------|-------------------|-------------------|
| 80001 - Capsules (plain)           | 26974-0410-80      | 6 x 60 capsules   | 150               |
| 80001-U - Powder pack (Unflavored) | 26974-0410-81      | 96 x 2 g          | 5                 |

† These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

### Supplement Facts:

Serving Size: 2 Capsules

| Amount Per Serving                   | Per 2 Capsules |
|--------------------------------------|----------------|
| Calories                             | 5              |
| Carbohydrate, g                      | <1             |
| Dietary Fiber, g                     | <1             |
| Proprietary blend, mg                | 942            |
| <i>FOS (Fructo-oligosaccharides)</i> |                |
| <i>Saccharomyces boulardii,</i>      |                |
| <i>Bacillus coagulans</i>            |                |

### Supplement Facts:

Serving Size: 1 Powder Pack (2 g)

| Amount Per Serving                   | Per Powder Pack |
|--------------------------------------|-----------------|
| Calories                             | 5               |
| Carbohydrate, g                      | 1               |
| Sugar, g                             | 0.5             |
| Proprietary blend, mg                | 942             |
| <i>FOS (Fructo-oligosaccharides)</i> |                 |
| <i>Saccharomyces boulardii,</i>      |                 |
| <i>Bacillus coagulans</i>            |                 |

Processing may impact level of colony forming units (CFU).

### Other Ingredients:

**Capsules:** Gelatin, Natural & Artificial Flavors. Contains 2% or less: Rice Bran Extract, Rice Concentrate, Sucralose, Silicon Dioxide, and Ethyl Maltol.

**Contains:** Milk.

**Powder Packs:** Microcrystalline cellulose, Maltodextrin, Silicon Dioxide.

### Suggested Use:

- Take two capsules or one powder pack once daily.

### Directions for Oral Consumption:

- Consume 2 capsules with fluid or break open capsule and consume.\*
- Dissolve powder pack in 30 mL juice and consume.\*

### Directions for Diff-Stat Through a Feeding Tube:\*\*

1. Flush the tube with 30-60 ml water.
  2. Mix contents of Diff-Stat with 30 mL water and administer immediately straight into the enteral tube.\*
  3. Flush the tube with additional 30-60 mL water.
- \* Diff-Stat is only viable for 30 minutes in solution.

\*\* For residents/patients with a CVC, open Diff-Stat capsule or powder pack in a separate room. Probiotics could be aerosolized or inadvertently introduced into a CVC line when the pack is opened, presenting a contamination risk.

### Precautions:

- Diff-Stat should be taken 1 hour before or 2 hours after antifungal medication.
- Do not use in case of yeast allergy.

### Storage:

- Do not expose to excessive heat.
- Do not refrigerate.
- Store in a cool, dry place.

† These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.





## Fiber-Stat®

A low volume liquid prebiotic fiber medical food for the dietary management of bowel regularity in persons unable to meet fiber requirements through a normal diet.

### Main Features:

- 15 grams of soluble prebiotic fiber (60% DV) in 1 fl oz
- Contains fructo-oligosaccharides (FOS) and polydextrose to support total gut health<sup>1-2</sup>
- Ready to drink or mix with any food or beverage
- Thin viscosity
- Lactose free, soy free and gluten free
- Kosher
- Available in bottles (6/case) or unit doses (96/case)
- For oral and enteral use

### Indications:

- Constipation
- Bowel regularity
- Low fiber intake
- Colon health

### Ordering/Reimbursement Information:

| Product Code           | Reimbursement Code | HCPCS Code | Product Packaging | Calories Per Unit |
|------------------------|--------------------|------------|-------------------|-------------------|
| 70001 - Prune (bottle) | 26974-0410-70      | B4104      | 6 x 30 fl oz      | 1500              |
| 70400-U - Prune (unit) | 26974-0410-71      | B4104      | 96 x 1 fl oz      | 50                |

### Nutrition Information:

| Nutrients        | Per 30 mL (2 Tbsp) |
|------------------|--------------------|
| Calories         | 50*                |
| Carbohydrate, g  | 25                 |
| Sugar, g         | 2.5                |
| Dietary Fiber, g | 15                 |
| Soluble Fiber, g | 15                 |
| <b>Minerals</b>  |                    |
| Sodium, mg       | 15                 |
| Potassium, mg    | 52                 |
| Phosphorus, mg   | 25                 |

\* Glycerin & polydextrose provide a source of calories

### Ingredients:

Water, Polydextrose, Glycerin, Prune Juice Concentrate, Fructo-oligosaccharides (FOS). Contains 2% or less: Sodium Benzoate (to help protect flavor), Potassium Sorbate (to help protect flavor), Phosphoric Acid.

### Administration:

- Use under medical supervision.
- Healthcare professionals should determine intake based on condition, estimated need, and dietary intake.
- Administer orally or through feeding tube.

### Suggested Intake:

- 1-2 servings per day.  
One serving = 1 fl oz.

### Oral Feeding:

- Can be taken straight or mixed with any hot or cold beverage.

### Tube Feeding:

1. Flush feeding tube with 30-60 mL water.
2. Measure and administer the prescribed dose via syringe.
3. Administer Fiber-Stat straight into the enteral tube.
4. Flush the tube with additional 30-60 mL water.

### Precautions:


- Do not consume more than 60 mL (4 Tbsp) per day without healthcare provider recommendation.
- Do not use if intestinal obstruction, fecal impaction or known allergy to any component is present.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

### Storage:

- Store and serve at room temperature.
- Refrigeration not necessary.
- Discard 3 months after opening. Record date opened on bottom of container.
- Do not use if seal is broken.

1. Losada MA, et al. Nutr Res. 2002;22:71-84. 2. Jie Z, et al. Am J Clin Nutr. 2000;72:1503-9.





**Habul**  
Diagnosed with MSUD

## OTHER NUTRITIONALS



Find more information and resources on these and all of our products at [www.NutriciaLearningCenter.com](http://www.NutriciaLearningCenter.com)



## Monogen®

A milk protein-based powder, low in fat, and high in medium chain triglycerides (MCT).  
A medical food for individuals over 1 year of age.

### Main Features:

- 26% of calories from fat
- 84% of fat as MCT
- Contains DHA and ARA
- Provides protein as a casein/whey mix; casein 61%, whey 39%
- Contains complete profile of vitamins and minerals including trace elements
- Osmolality (mOsm/kg):  
Dilution  
0.73 kcal/mL: 235 mOsm/kg  
1.0 kcal/mL: 289 mOsm/kg
- Displacement: 0.83 mL/g

### Indications:

- Long chain fatty acid oxidation disorders
- Hyperlipoproteinemia type 1
- Other lipid and lymphatic disorders where a low fat, high MCT diet is indicated
- Chylothorax

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code     | Product Packaging   | Calories Per Can |
|--------------|--------------------|----------------|---------------------|------------------|
| 106033       | 49735-0160-33      | B4150 or B4158 | 6 x 400 g (14.1 oz) | 1776             |

**WIC\*:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

| Nutrients                         | Per 100 g  | Per 100 kcal | Nutrients            | Per 100 g | Per 100 kcal |
|-----------------------------------|------------|--------------|----------------------|-----------|--------------|
| Calories, kcal                    | 444        | 100          | Pantothenic Acid, mg | 2.0       | 0.45         |
| Protein Equivalent, g             | 12.9       | 2.9          | Biotin, mcg          | 12.8      | 2.9          |
| Fat, g                            | 12.9       | 2.9          | Vitamin C, mg        | 54.1      | 12.2         |
| MCT, g                            | 10.8       | 2.4          | Choline, mg          | 90.9      | 20.5         |
| LCT, g                            | 2.10       | 0.5          | Inositol, mg         | 79.8      | 18.0         |
| Linoleic acid, g                  | 0.90       | 0.2          | <b>Minerals</b>      |           |              |
| α-Linolenic acid, g               | 0.17       | 0.04         | Calcium, mg          | 321       | 72.3         |
| ARA, mg                           | 60.0       | 13.5         | Phosphorous, mg      | 193       | 43.5         |
| DHA, mg                           | 60.0       | 13.5         | Magnesium, mg        | 39.6      | 8.9          |
| Carbohydrate, g                   | 69.1       | 15.6         | Iron, mg             | 6.0       | 1.4          |
| <b>Vitamins</b>                   |            |              | Zinc, mg             | 4.1       | 0.92         |
| Vitamin A, IU (mcg RE)            | 974 (293)  | 219 (66.0)   | Manganese, mg        | 0.32      | 0.07         |
| Vitamin D <sub>3</sub> , IU (mcg) | 428 (10.7) | 96.4 (2.4)   | Copper, mcg          | 324       | 73.0         |
| Vitamin E, IU (mg α-TE)           | 6.6 (4.4)  | 1.5 (0.99)   | Iodine, mcg          | 72.3      | 16.3         |
| Vitamin K, mcg                    | 16.1       | 3.6          | Molybdenum, mcg      | 18.8      | 4.2          |
| Thiamin, mg                       | 0.41       | 0.09         | Chromium, mcg        | 9.5       | 2.1          |
| Riboflavin, mg                    | 0.44       | 0.10         | Selenium, mcg        | 10.4      | 2.3          |
| Vitamin B <sub>6</sub> , mg       | 0.40       | 0.09         | Sodium, mg           | 192       | 43.2         |
| Vitamin B <sub>12</sub> , mcg     | 0.60       | 0.14         | Potassium, mg        | 372       | 83.8         |
| Niacin, mg                        | 2.7        | 0.61         | Chloride, mg         | 284       | 64.0         |
| Folic Acid, mcg                   | 61.0       | 13.7         |                      |           |              |

### Ingredients:

Maltodextrin, Skim Milk, Refined Vegetable Oil (Modified Palm Kernel And/Or Coconut Oil [Medium Chain Triglycerides]), Whey (Milk), Caseinate (Milk), Walnut Oil, Corn Syrup Solids, Sodium Citrate, Potassium Chloride, Calcium Carbonate, Magnesium Hydrogen Phosphate, Choline Chloride, *M. Alpina* Oil\*, *C. Cohnii* Oil\*\*, L-Valine, Inositol, L-Ascorbic Acid, L-Tryptophan, Sodium L-Ascorbate, Taurine, L-Isoleucine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Niacinamide, DL-Alpha Tocopherol, Calcium D-Pantothenate, Copper Sulfate, Manganese Sulfate, Pyridoxine Hydrochloride, Thiamin Chloride Hydrochloride, Vitamin A Acetate, Riboflavin, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Sodium Selenite, Vitamin D<sub>3</sub>.

\* A Source of Arachidonic Acid (ARA)

\*\* A Source of Docosahexaenoic Acid (DHA)

Contains: Coconut Oil, Milk, Walnut Oil

### Important Information:

- Intake is determined by a medical professional and is dependent on the age, body weight and medical condition of the patient.
- Regular monitoring of essential fatty acids is recommended.
- Not for parenteral use. For oral and tube feeding in individuals over 1 year of age.

### Administration:

For oral or tube feeding:

1. Measure the required amount of warmed water into a container.
2. Add the prescribed amount of Monogen to the water. The scoop provided in the can measures 5.6 g (level and unpacked).
3. Cover and shake until the powder has dissolved.

The following are guidelines for achieving desired concentrations:

| Concentration                   | Powder               | Water                  | Final Volume |
|---------------------------------|----------------------|------------------------|--------------|
| 22 kcal/30 mL<br>(0.73 kcal/mL) | 16.8 g<br>(3 Scoops) | 90 mL<br>(3 fl oz)     | 100 mL       |
| 30 kcal/30 mL<br>(1.0 kcal/mL)  | 22.8 g<br>(4 Scoops) | 80 mL<br>(2 1/2 fl oz) | 100 mL       |

Unpacked, level scoops are approximations only. For accuracy, use a scale.

- Once prepared, the formula should be stored in a refrigerator and kept no longer than 24 hours from the time of preparation. Shake or stir Monogen immediately before use.

### Storage:

Store in a cool, dry place. Once opened, use contents within one month. Replace lid firmly after use.



## Liquigen®

A high energy medium-chain triglyceride (MCT) emulsion for conditions where MCTs are part of dietary management, such as long-chain fatty acid oxidation disorders or conditions managed by the ketogenic diet. A medical food.

### Main Features:

- Simplifies addition of MCTs to the diet
- Emulsified for better mixing
- 50% MCT/ 50% water
- Unflavored
- High energy: 4.5 kcal/mL
- Osmolality: 10 mOsm/kg
- Density: 0.97 g/mL
- For oral or enteral use
- Can be used in beverages and foods

### Indications:

- Conditions where MCTs are part of dietary management, such as:
  - Conditions managed by the ketogenic diet
  - Long-chain fatty acid oxidation disorders
  - Chylothorax
  - Fat malabsorption
  - Short bowel syndrome

### Ordering/Reimbursement Information:

| Product Code   | Reimbursement Code | HCPCS Code | Product Packaging          | Calories Per Bottle |
|----------------|--------------------|------------|----------------------------|---------------------|
| 71957 (Case)   | 49735-0119-57      | B4155      | 3 x 4 x 250 mL (8.5 fl oz) | 1125                |
| 71957-3 (Unit) | 49735-0195-73      | B4155      | 4 x 250 mL (8.5 fl oz)     | 1125                |

WIC<sup>‡</sup>: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

| Nutrients       | Per 100 mL | Per 250 mL |
|-----------------|------------|------------|
| Calories        | 450        | 1125       |
| Protein, g      | None       | None       |
| Carbohydrate, g | None       | None       |
| Fat, g          | 50         | 125        |
| Saturated, g    | 47.1       | 118        |
| *MCT, g         | 45.4       | 114        |
| *LCT, g         | 1.39       | 3.49       |
| <b>Minerals</b> |            |            |
| Calcium, mg     | 0.30       | 0.75       |
| Sodium, mg      | 5.0        | 12.5       |
| Potassium, mg   | 0.10       | 0.25       |
| Chloride, mg    | 0.10       | 0.25       |

\* Listed as fatty acids

### Ingredients:

Refined Vegetable Oil (Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil)), Water, Citric Acid Esters of Mono and Diglycerides (Emulsifier), Mono and Diglycerides (Emulsifier), Citric Acid.

### Administration:

- The quantity of Liquigen should be determined by a healthcare professional only and is dependent on the age, bodyweight and medical condition of the patient. Liquigen may require dilution for children under 5 years of age.
- **Shake well before use.**

### Precautions:

- Use under medical supervision.
- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

### Storage:

- Recommended storage between 39°-77°F (4°-25°C).
- Once opened, store in a refrigerator and use within 14 days.
- Always replace the bottle lid after use.



## Duocal®

A powdered medical food providing fat and carbohydrate for increased caloric intake.

### Main Features:

- Calorically dense – 1 scoop (5 g) provides 25 kcal
- Unique dual energy source of fat and carbohydrate
- Super soluble without altering the taste or texture of foods and beverages
- Milk protein free
- Osmolality (1:3 dilution): 310 mOsm/kg
- 1 gram contributes approximately 0.93 mOsm when added to a solution
- PRSL of less than 0.017 mOsm/g
- Energy distribution:
 

|                         |     |
|-------------------------|-----|
| Carbohydrate            | 59% |
| Fat (MCT 35% / LCT 65%) | 41% |
- Displacement 0.77 mL/g

### Indications:

- Conditions where a high energy, low fluid, low electrolytes diet is indicated
- Protein restricted diets
- Disorders of protein and amino acid metabolism
- Malabsorptive states
- Modular diets
- Catabolic states (e.g. burns, trauma, post-operative stress)
- Suitable for oral and tube feedings

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code | Product Packaging   | Calories Per Can |
|--------------|--------------------|------------|---------------------|------------------|
| 118262       | 49735-0182-62      | B4155      | 6 x 400 g (14.1 oz) | 1968             |

**WIC<sup>†</sup>:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

| Nutrients          | Per 100 g | Per 10 g sachet |
|--------------------|-----------|-----------------|
| Calories           | 492       | 49.2            |
| Protein, g         | None      | None            |
| Fat, g             | 22.3      | 2.2             |
| Saturated, g       | 13.8      | 1.4             |
| Monounsaturated, g | 2.5       | 0.25            |
| Polyunsaturated, g | 4.8       | 0.48            |
| Carbohydrate, g    | 72.7      | 7.3             |
| <b>Minerals</b>    |           |                 |
| Sodium, mg         | ≤ 20.0    | ≤ 2.0           |
| Potassium, mg      | ≤ 5.0     | ≤ 0.50          |
| Chloride, mg       | ≤ 20.0    | ≤ 2.0           |
| Calcium, mg        | ≤ 5.0     | ≤ 0.50          |
| Phosphorus, mg     | ≤ 5.0     | ≤ 0.50          |

### Ingredients:

Hydrolyzed Cornstarch, Blend of Refined Vegetable Oils (Corn, Coconut), Medium Chain Triglycerides (Fractionated Coconut Oil, Palm Kernel Oil), Mono and Diglycerides, Diacetyl Tartaric Acid Esters of Monoglycerides.

### Household Measures:

(all measures are unpacked)

| Measure  | Weight | Calories |
|----------|--------|----------|
| 1 Scoop  | 5 g    | 25       |
| 1 tsp    | 2.6 g  | 13       |
| 1 Tbsp   | 8.5 g  | 42       |
| 1/4 cup  | 30 g   | 148      |
| 1/2 cup  | 56 g   | 276      |
| 1 cup    | 117 g  | 576      |
| 1 sachet | 10 g   | 49       |

Based on standard US dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a gram scale.

### Precautions:

- Not for parenteral use.
- Not suitable for use as a sole source of nutrition.

### Administration:

- Intake to be determined by a medical professional and is dependent on the age, body weight and medical condition of the patient.

For oral or tube feeding:

1. Measure the prescribed amount of Duocal.
2. Add powder to the required volume of liquid and/or soft food and stir continuously until the powder has dissolved.
3. Unused foods mixed with Duocal should be refrigerated and used within 24 hours. Shake or stir immediately before serving.

### Storage:

- Store unopened can at room temperature. Once opened, replace container lid and store in a cool, dry place (not in refrigerator) and use within one month.



## Polycal™

A powdered, concentrated source of energy (maltodextrin). A medical food.

### Main Features:

- Calorically dense – 1 scoop provides approximately 5 g (~20 kcal)
- Easily digestible maltodextrin
- Completely soluble in foods and drinks
- Neutral taste – does not alter the taste of foods and drinks
- Manufactured in a dairy-free environment
- Osmolality (10% solution): 104 mOsm/kg
- 1 gram contributes approximately 1.04 mOsm when added to a solution
- PRSL < 0.01 mOsm/10 g
- Displacement: 0.57 mL/g

### Indications:

- Conditions where a high energy, low fluid or modular diet is indicated.
- For the dietary management of energy needs in patients with inborn errors of metabolism.

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code | Product Packaging    | Calories Per Can |
|--------------|--------------------|------------|----------------------|------------------|
| 89461        | 49735-0111-52      | B4155      | 12 x 400 g (14.1 oz) | 1536             |

**WIC:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

| Nutrients       | Per 100 g |
|-----------------|-----------|
| Calories        | 384       |
| Carbohydrate, g | 96.0      |
| Protein, g      | 0         |
| Fat, g          | 0         |
| <b>Minerals</b> |           |
| Sodium, mg      | 2.0       |
| Potassium, mg   | 0         |

### Ingredients:

Maltodextrin.

### Household Measures:

(all measures are unpacked)

| Measure | Weight | Calories  |
|---------|--------|-----------|
| 1 Scoop | 5 g    | ~20 kcal  |
| ½ tsp   | 1.2 g  | 4.6 kcal  |
| 1 tsp   | 2.4 g  | 9.3 kcal  |
| 1 Tbsp  | 7.3 g  | 27.8 kcal |
| ¼ cup   | 29.0 g | 111 kcal  |
| ⅓ cup   | 38.7 g | 148 kcal  |
| ½ cup   | 58.0 g | 223 kcal  |
| 1 cup   | 116 g  | 445 kcal  |

Based on standard US dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a gram scale.

### Precautions:

- Not for parenteral use.
- Not suitable for use as a sole source of nutrition.

### Administration:

Intake to be determined by a medical professional and is dependent on the age, body weight and medical condition of the patient.

- Beverages: Sprinkle the required amount of powder into the beverage and stir well.
- Foods: For best results, mix powder with sufficient liquid to form a smooth paste before stirring into hot or cold food.
- Unfinished beverages and foods should be stored in a refrigerator for up to 24 hours.

### Storage:

Store unopened can in a cool, dry place. Once opened, replace container lid and store in a cool, dry place (not in refrigerator) and use contents within 1 month.



## Complete Amino Acid Mix

An unflavored, powdered mixture of essential and non-essential amino acids. A medical food.

### Main Features:

- Balanced mixture of essential and non-essential amino acids
- Supplements increased protein needs in enteral formulas
- Complete Amino Acid Mix provides 4 g of protein equivalent per 5 g of powder
- Osmolality (5% w/v): 360 mOsm/kg
- Approximate displacement: 0.75 mL/g

### Indications:

- Conditions in which a nutritionally complete feed is not suitable or a modular approach is required
- Conditions where an oligoallergenic diet is indicated (e.g. eosinophilic esophagitis or individuals with intolerance to milk protein or other whole protein)
- Intractable malabsorption
- Feeding difficulties in post-operative conditions
- Chronic intestinal diseases (e.g. Crohn's disease)
- Short bowel syndrome following intestinal resection

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code | Product Packaging | Calories Per Can |
|--------------|--------------------|------------|-------------------|------------------|
| 553341       | 49735-0133-41      | B4155      | 6 x 200 g (7 oz)  | 656              |

**WIC:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

| Nutrients             | Per 100 g |
|-----------------------|-----------|
| Calories              | 328       |
| Protein Equivalent, g | 82        |
| Fat, g                | None      |
| Carbohydrate, g       | None      |
| <b>Amino Acids, g</b> |           |
| L-Alanine             | 3.5       |
| L-Arginine            | 7.66      |
| L-Aspartic Acid       | 6.39      |
| L-Cystine             | 2.4       |
| L-Glutamic Acid       | 8.17      |
| Glycine               | 6.0       |
| L-Histidine           | 4.38      |
| L-Isoleucine          | 5.95      |
| L-Leucine             | 10.22     |
| L-Lysine              | 7.55      |
| L-Methionine          | 1.65      |
| L-Phenylalanine       | 4.5       |
| L-Proline             | 7.0       |
| L-Serine              | 4.29      |
| L-Threonine           | 5.0       |
| L-Tryptophan          | 2.0       |
| L-Tyrosine            | 4.3       |
| L-Valine              | 6.5       |
| L-Glutamine           | 0.7       |

### Ingredients:

L-Lysine L-Glutamate, L-Leucine, L-Arginine, L-Proline, L-Valine, L-Aspartic Acid, Glycine, L-Isoleucine, L-Threonine, L-Phenylalanine, L-Histidine, L-Serine, L-Tyrosine, L-Alanine, L-Cystine, L-Tryptophan, L-Methionine, L-Glutamine, L-Glutamic Acid.

### Household Measures:

(all measures are unpacked)

| Measure  | Weight | Protein Equivalent |
|----------|--------|--------------------|
| 1/2 tsp  | 1.4 g  | 1.15               |
| 1 tsp    | 2.9 g  | 2.38               |
| 1/2 Tbsp | 4.4 g  | 3.61               |
| 1 Tbsp   | 9.5 g  | 7.79               |

Based on standard US dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a gram scale.

### Precautions:

- Dosage should be determined by a doctor or dietitian and is dependent on the age, body weight and medical condition of the patient.
- Not for parenteral use.
- Not suitable for use as a sole source of nutrition.

### Administration:

- The recommended feeding concentration is 5% w/v (e.g. 5 g powder to 100 mL of water).
- Complete Amino Acid Mix should be weighed on a scale that reads in grams.
- Best served as a chilled drink, mixed with water, fruit juices or other formulas. Complete Amino Acid Mix may also be added to soft, moist foods, such as applesauce.

### Storage:

- Store in a cool, dry place. Once opened, use within one month. Always replace container lid after use.
- Once reconstituted, the prepared feed should be stored in a refrigerator and must not be kept longer than 24 hours from the time of preparation. Stir or shake immediately before serving.





## Essential Amino Acid Mix

An unflavored, powdered mixture of essential amino acids, including cystine and histidine. A medical food.

### Main Features:

- Balanced mixture of essential amino acids
- Essential Amino Acid Mix provides 4 g of protein equivalent per 5 g of powder
- Osmolality (5% w/v): 360 mOsm/kg
- Approximate displacement: 0.75 mL/g

### Indications:

- Dietary management of urea cycle disorders
- Conditions in which a nutritionally complete feed is not suitable or a modular approach is required

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code | Product Packaging | Calories Per Can |
|--------------|--------------------|------------|-------------------|------------------|
| 553342       | 49735-0133-42      | B4155      | 6 x 200 g (7 oz)  | 632              |

**WIC<sup>†</sup>:** Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

| Nutrients             | Per 100 g |
|-----------------------|-----------|
| Calories              | 316       |
| Protein Equivalent, g | 79        |
| Fat, g                | None      |
| Carbohydrate, g       | None      |
| <b>Amino Acids, g</b> |           |
| L-Cystine             | 3.78      |
| L-Histidine           | 3.78      |
| L-Isoleucine          | 10.4      |
| L-Leucine             | 16.17     |
| L-Lysine              | 13.25     |
| L-Methionine          | 3.78      |
| L-Phenylalanine       | 5.67      |
| L-Threonine           | 11.35     |
| L-Tryptophan          | 2.36      |
| L-Tyrosine            | 9.46      |
| L-Valine              | 14.56     |

### Ingredients:

L-Lysine Acetate, L-Leucine, L-Valine, L-Threonine, L-Isoleucine, L-Tyrosine, L-Phenylalanine, L-Histidine, L-Cystine, L-Methionine, L-Tryptophan.

### Household Measures:

(all measures are unpacked)

| Measure  | Weight | Protein Equivalent |
|----------|--------|--------------------|
| 1/2 tsp  | 1.4 g  | 1.11               |
| 1 tsp    | 2.7 g  | 2.13               |
| 1/2 Tbsp | 4.1 g  | 3.24               |
| 1 Tbsp   | 9.0 g  | 7.11               |

Based on standard US dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a gram scale.

### Precautions:

- Dosage should be determined by a doctor or dietitian and is dependent on the age, body weight and medical condition of the patient.
- Not for parenteral use.
- Not suitable for use as a sole source of nutrition.

### Administration:

- The recommended feeding concentration is 5% w/v (e.g. 5 g powder to 100 mL of water).
- Essential Amino Acid Mix should be weighed on a scale that reads in grams.
- Best served as a chilled drink, mixed with water, fruit juices or other formulas. It may also be added to soft, moist foods, such as applesauce.

### Storage:

- Store in a cool, dry place. Once opened, use within one month. Always replace container lid after use.
- Once reconstituted, the prepared feed should be stored in a refrigerator and must not be kept longer than 24 hours from the time of preparation. Stir or shake immediately before serving.



## Phlexy-Vits

A concentrated, powdered vitamin, mineral and trace element preparation designed to help meet the micronutrient requirements of older children (11 years and older) and adults.

### Main Features:

- One 7 g packet supplies the majority of vitamins and minerals needed to meet the DRI of individuals 11 years and older

### Indications:

- Restrictive therapeutic diets

### Ordering/Reimbursement Information:

| Product Code | Reimbursement Code | HCPCS Code | Product Packaging | Calories Per Packet |
|--------------|--------------------|------------|-------------------|---------------------|
| 10685        | 49735-0106-85      | A9270      | 30 x 7 g          | 0.2                 |

### Nutrition Information:

| Nutrients                       | Per 7 g packet |
|---------------------------------|----------------|
| Calories                        | 0.20           |
| Protein, g                      | 0.02           |
| Fat, g                          | None           |
| Carbohydrate, g                 | 0.04           |
| <b>Vitamins</b>                 |                |
| Vitamin A, IU (mcg RE)          | 2664 (800)     |
| Vitamin D, IU (mcg)             | 400 (10)       |
| Vitamin E, IU (mg $\alpha$ -TE) | 13.5 (9)       |
| Vitamin K, mcg                  | 70.0           |
| Thiamin, mg                     | 1.2            |
| Riboflavin, mg                  | 1.4            |
| Vitamin B <sub>6</sub> , mg     | 1.6            |
| Vitamin B <sub>12</sub> , mcg   | 5.0            |
| Niacin, mg                      | 20.0           |
| Folic Acid, mcg                 | 700            |
| Pantothenic Acid, mg            | 5.0            |
| Biotin, mcg                     | 150            |
| Vitamin C, mg                   | 50.0           |
| <b>Minerals</b>                 |                |
| Calcium, mg                     | 1000           |
| Phosphorus, mg                  | 775            |
| Magnesium, mg                   | 300            |
| Iron, mg                        | 15.1           |
| Zinc, mg                        | 11.1           |
| Manganese, mg                   | 1.5            |
| Copper, mcg                     | 1505           |
| Iodine, mcg                     | 150            |
| Molybdenum, mcg                 | 70.0           |
| Chromium, mcg                   | 30.0           |
| Selenium, mcg                   | 75.0           |
| Sodium, mg                      | 8.8            |
| Potassium, mg                   | <1.4           |
| Chloride, mg                    | <0.35          |

### Ingredients:

Calcium Phosphate Dibasic, Magnesium Acetate, Guar Gum, L-Ascorbic Acid, Ferrous Sulfate, Dextrose, Zinc Sulfate, Nicotinamide, DL-Alpha Tocopheryl Acetate, Copper Gluconate, Calcium D-Pantothenate, Manganese Sulfate, Pyridoxine Hydrochloride, Thiamin Mononitrate, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Sodium Molybdate, Sodium Selenite, D-Biotin, Chromium Chloride, Phylloquinone, Vitamin D<sub>3</sub>, Cyanocobalamin.

### Household Measures:

(all measures are unpacked)

| Measure | Weight |
|---------|--------|
| 1/4 tsp | 0.7 g  |
| 1/2 tsp | 1.4 g  |
| 1 tsp   | 3 g    |
| 1 Tbsp  | 10 g   |

Based on standard US dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a gram scale.

### Precautions:

- Not for parenteral use.
- Not suitable for use as a sole source of nutrition.

### Administration:

- Add a small amount of water and mix to a smooth paste. Add the remaining water to give a final volume of approximately 100 mL.
- Mix one sachet of Phlexy-Vits to a smooth paste with a small amount of lemonade or fruit juice (approx. 1.5 fl oz). Dilute to a final volume of 150 mL (5 fl oz). The amount of lemonade/juice and water used will vary according to taste.

### Storage:

- Store in a cool, dry place. Once opened, a sachet should be stored in an airtight container and used within 2-3 days.



## Single Amino Acids

Pure amino acid powder.

### Main Features:

- Amino Acid medical foods for the dietary management of inborn errors of metabolism.
- **IMPORTANT:** For use under medical supervision. This product is nutritionally incomplete. Not for parenteral use.
- **WARNING:** Do not heat, bake or add to hot food or beverages above 130°F.
- **STORAGE:** Keep at controlled room temperature (68°-77°F). Protect from heat, humidity and light. After opening, cover with resealable lid and store in a cool dry place.
- **DIRECTIONS FOR USE:** Use as directed by physician or dietitian.

### Suggested mixing dilution:

- A 10% solution can be made by mixing 1 g of amino acids into 100 mL of sterilized water. Every 1 mL of solution provides 10 mg of amino acids.

**Note:** This method will work for all amino acids that are water soluble. L-Tyrosine is not water soluble.

### Ordering/Reimbursement Information:

| Product      | Product Code | Reimbursement Code | HCPCS Code | Package Description |
|--------------|--------------|--------------------|------------|---------------------|
| L-ARGININE   | 0120A        | 00847-0012-00      | B4155      | 1 - 50 g bottle     |
| GLYCINE      | 0130G        | 00847-0013-00      | B4155      | 1 - 50 g bottle     |
| L-ISOLEUCINE | 0140I        | 00847-0014-00      | B4155      | 1 - 50 g bottle     |
| L-LEUCINE    | 0150L        | 00847-0015-00      | B4155      | 1 - 50 g bottle     |
| L-TYROSINE   | 0160T        | 00847-0016-00      | B4155      | 1 - 50 g bottle     |
| L-VALINE     | 0170V        | 00847-0017-00      | B4155      | 1 - 50 g bottle     |





Nutricia  
Navigator Team

## RESOURCES



Find more information and resources on these and all of our products at [www.NutriciaLearningCenter.com](http://www.NutriciaLearningCenter.com)



NUTRICIA LEARNING CENTER

The following pages include pocket-sized versions of treatment flowcharts that are available free at [www.NutriciaLearningCenter.com](http://www.NutriciaLearningCenter.com)

These five flow charts illustrate options for the nutrition management of conditions where specialized medical nutrition may be helpful. They are evidence-based tools that may be used as decision-making guides to help clinicians to determine the best way to nutritionally manage patients.

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Nutricia Learning Center is a unique education tool for clinicians managing patients with specialized nutritional requirements. This set of valuable resources and clinical tools includes:

- Recorded Webinars (CE eligible)
- Healthcare Professional Tools
- Patient Education Tools
- Reference Library
- Case Studies

## Reimbursement

### WIC:

‡WIC is a registered service mark of the U.S. Department of Agriculture for USDA's Special Supplemental Nutrition Program for Women, Infants and Children.

WIC *eligible* means that a product has been approved at the Federal level and, therefore, may be included on a State agency's authorized food list if the State agency so chooses.

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### Reimbursement Codes:

Reimbursement codes listed in this Guide have been submitted by Nutricia North America to US data warehouses based on the format established by the data warehouses. These codes are not NDC numbers.

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[www.Neocate.com](http://www.Neocate.com)



[MedicalFood.com/Reimbursement](http://MedicalFood.com/Reimbursement)



## Resources

### § Dietary Reference Intakes (DRIs): Recommended Dietary Allowances and Adequate Intakes, Total Water, Macro- Nutrients, Vitamins and Elements

Food and Nutrition Board, Institute of Medicine,  
National Academies (1997-2005)

\* **Note:** The tables (taken from the DRI reports, see [www.nap.edu](http://www.nap.edu)) present Recommended Dietary Allowances (RDAs) in **bold type** and Adequate Intakes (AIs) in ordinary type followed by an asterisk (\*). RDAs and AIs may both be used as goals for individual intake. RDAs are set to meet the needs of almost all (97 to 98 percent) individuals in a group. For healthy breastfed infants, the AI is the mean intake.

The AI for other life stage and gender groups is believed to cover needs of all individuals in the group, but lack of data or uncertainty in the data prevent being able to specify with confidence the percentage of individuals covered by this intake. Individual patient recommendations may vary.

<sup>a</sup> Total Water includes all water contained in food, beverages, and drinking water

<sup>b</sup> Based on g protein per kg body weight:

- 1.52 g/kg/day for infants 0-6 months
- 1.5 g/kg/day for infants 7-12 months
- 1.1 g/kg/day for 1-3
- 0.95 g/kg/day for 4-13 y
- 0.85 g/kg/day for 14-18 y
- 0.80 g/kg/day for adults
- 1.1 g/kg/day for pregnant (using pre-pregnancy weight) and lactating women

## Macronutrients

| Life Stage Group | Total Water <sup>a</sup> (L/d) | Carbohydrate (g/d) | Total Fiber (g/d) | Fat (g/d) | Linoleic Acid (g/d) | $\alpha$ -Linolenic Acid (g/d) | Protein (g/d)           |
|------------------|--------------------------------|--------------------|-------------------|-----------|---------------------|--------------------------------|-------------------------|
| <b>Infants</b>   |                                |                    |                   |           |                     |                                |                         |
| 0-6 mo           | 0.7*                           | 60*                | ND                | 31*       | 4.4*                | 0.5*                           | 9.1*                    |
| 7-12 mo          | 0.8*                           | 95*                | ND                | 30*       | 4.6*                | 0.5*                           | <b>11.0<sup>a</sup></b> |
| <b>Children</b>  |                                |                    |                   |           |                     |                                |                         |
| 1-3 y            | 1.3*                           | <b>130</b>         | 19*               | ND        | 7*                  | 0.7*                           | <b>13</b>               |
| 4-8 y            | 1.7*                           | <b>130</b>         | 25*               | ND        | 10*                 | 0.9*                           | <b>19</b>               |
| <b>Males</b>     |                                |                    |                   |           |                     |                                |                         |
| 9-13 y           | 2.4*                           | <b>130</b>         | 31*               | ND        | 12*                 | 1.2*                           | <b>34</b>               |
| 14-18 y          | 3.3*                           | <b>130</b>         | 38*               | ND        | 16*                 | 1.6*                           | <b>52</b>               |
| 19-30 y          | 3.7*                           | <b>130</b>         | 38*               | ND        | 17*                 | 1.6*                           | <b>56</b>               |
| 31-50 y          | 3.7*                           | <b>130</b>         | 38*               | ND        | 17*                 | 1.6*                           | <b>56</b>               |
| 51-70 y          | 3.7*                           | <b>130</b>         | 30*               | ND        | 14*                 | 1.6*                           | <b>56</b>               |
| > 70 y           | 3.7*                           | <b>130</b>         | 30*               | ND        | 14*                 | 1.6*                           | <b>56</b>               |
| <b>Females</b>   |                                |                    |                   |           |                     |                                |                         |
| 9-13 y           | 2.1*                           | <b>130</b>         | 26*               | ND        | 10*                 | 1.0*                           | <b>34</b>               |
| 14-18 y          | 2.3*                           | <b>130</b>         | 26*               | ND        | 11*                 | 1.1*                           | <b>46</b>               |
| 19-30 y          | 2.7*                           | <b>130</b>         | 25*               | ND        | 12*                 | 1.1*                           | <b>46</b>               |
| 31-50 y          | 2.7*                           | <b>130</b>         | 25*               | ND        | 12*                 | 1.1*                           | <b>46</b>               |
| 51-70 y          | 2.7*                           | <b>130</b>         | 21*               | ND        | 11*                 | 1.1*                           | <b>46</b>               |
| > 70 y           | 2.7*                           | <b>130</b>         | 21*               | ND        | 11*                 | 1.1*                           | <b>46</b>               |
| <b>Pregnancy</b> |                                |                    |                   |           |                     |                                |                         |
| 14-18 y          | 3.0*                           | <b>175</b>         | 28*               | ND        | 13*                 | 1.4*                           | <b>71</b>               |
| 19-30 y          | 3.0*                           | <b>175</b>         | 28*               | ND        | 13*                 | 1.4*                           | <b>71</b>               |
| 31-50 y          | 3.0*                           | <b>175</b>         | 28*               | ND        | 13*                 | 1.4*                           | <b>71</b>               |
| <b>Lactation</b> |                                |                    |                   |           |                     |                                |                         |
| 14-18 y          | 3.8*                           | <b>210</b>         | 29*               | ND        | 13*                 | 1.3*                           | <b>71</b>               |
| 19-30 y          | 3.8*                           | <b>210</b>         | 29*               | ND        | 13*                 | 1.3*                           | <b>71</b>               |
| 31-50 y          | 3.8*                           | <b>210</b>         | 29*               | ND        | 13*                 | 1.3*                           | <b>71</b>               |

## Vitamins

| Life Stage Group | Vitamin A (mcg/d) | Vitamin D (mcg/d) | Vitamin E (mg/d) | Vitamin K (mcg/d) | Thiamin (mg/d) | Riboflavin (mg/d) | Niacin (mg/d) | Vitamin B <sub>6</sub> (mg/d) | Folate (mcg/d) | Vitamin B <sub>12</sub> (mcg/d) | Pantothenic Acid (mg/d) | Biotin (mcg/d) | Choline (mg/d) | Vitamin C (mg/d) |
|------------------|-------------------|-------------------|------------------|-------------------|----------------|-------------------|---------------|-------------------------------|----------------|---------------------------------|-------------------------|----------------|----------------|------------------|
| <b>Infants</b>   |                   |                   |                  |                   |                |                   |               |                               |                |                                 |                         |                |                |                  |
| 0-6 mo           | 400*              | 10*               | 4*               | 2.0*              | 0.2*           | 0.3*              | 2*            | 0.1*                          | 65*            | 0.4*                            | 1.7*                    | 5*             | 125*           | 40*              |
| 7-12 mo          | 500*              | 10*               | 5*               | 2.5*              | 0.3*           | 0.4*              | 4*            | 0.3*                          | 80*            | 0.5*                            | 1.8*                    | 6*             | 150*           | 50*              |
| <b>Children</b>  |                   |                   |                  |                   |                |                   |               |                               |                |                                 |                         |                |                |                  |
| 1-3 y            | <b>300</b>        | <b>15</b>         | <b>6</b>         | 30*               | 0.5            | 0.5               | <b>6</b>      | 0.5                           | <b>150</b>     | <b>0.9</b>                      | 2*                      | 8*             | 200*           | <b>15</b>        |
| 4-8 y            | <b>400</b>        | <b>15</b>         | <b>7</b>         | 55*               | 0.6            | 0.6               | <b>8</b>      | 0.6                           | <b>200</b>     | <b>1.2</b>                      | 3*                      | 12*            | 250*           | <b>25</b>        |
| <b>Males</b>     |                   |                   |                  |                   |                |                   |               |                               |                |                                 |                         |                |                |                  |
| 9-13 y           | <b>600</b>        | <b>15</b>         | <b>11</b>        | 60*               | 0.9            | 0.9               | <b>12</b>     | <b>1.0</b>                    | <b>300</b>     | <b>1.8</b>                      | 4*                      | 20*            | 375*           | <b>45</b>        |
| 14-18 y          | <b>900</b>        | <b>15</b>         | <b>15</b>        | 75*               | 1.2            | 1.3               | <b>16</b>     | <b>1.3</b>                    | <b>400</b>     | <b>2.4</b>                      | 5*                      | 25*            | 550*           | <b>75</b>        |
| 19-30 y          | <b>900</b>        | <b>15</b>         | <b>15</b>        | 120*              | 1.2            | 1.3               | <b>16</b>     | <b>1.3</b>                    | <b>400</b>     | <b>2.4</b>                      | 5*                      | 30*            | 550*           | <b>90</b>        |
| 31-50 y          | <b>900</b>        | <b>15</b>         | <b>15</b>        | 120*              | 1.2            | 1.3               | <b>16</b>     | <b>1.3</b>                    | <b>400</b>     | <b>2.4</b>                      | 5*                      | 30*            | 550*           | <b>90</b>        |
| 51-70 y          | <b>900</b>        | <b>15</b>         | <b>15</b>        | 120*              | 1.2            | 1.3               | <b>16</b>     | <b>1.7</b>                    | <b>400</b>     | <b>2.4</b>                      | 5*                      | 30*            | 550*           | <b>90</b>        |
| > 70 y           | <b>900</b>        | <b>20</b>         | <b>15</b>        | 120*              | 1.2            | 1.3               | <b>16</b>     | <b>1.7</b>                    | <b>400</b>     | <b>2.4</b>                      | 5*                      | 30*            | 550*           | <b>90</b>        |
| <b>Females</b>   |                   |                   |                  |                   |                |                   |               |                               |                |                                 |                         |                |                |                  |
| 9-13 y           | <b>600</b>        | <b>15</b>         | <b>11</b>        | 60*               | 0.9            | 0.9               | <b>12</b>     | <b>1.0</b>                    | <b>300</b>     | <b>1.8</b>                      | 4*                      | 20*            | 375*           | <b>45</b>        |
| 14-18 y          | <b>700</b>        | <b>15</b>         | <b>15</b>        | 75*               | 1.0            | 1.0               | <b>14</b>     | <b>1.2</b>                    | <b>400</b>     | <b>2.4</b>                      | 5*                      | 25*            | 400*           | <b>65</b>        |
| 19-30 y          | <b>700</b>        | <b>15</b>         | <b>15</b>        | 90*               | 1.1            | 1.1               | <b>14</b>     | <b>1.3</b>                    | <b>400</b>     | <b>2.4</b>                      | 5*                      | 30*            | 425*           | <b>75</b>        |
| 31-50 y          | <b>700</b>        | <b>15</b>         | <b>15</b>        | 90*               | 1.1            | 1.1               | <b>14</b>     | <b>1.3</b>                    | <b>400</b>     | <b>2.4</b>                      | 5*                      | 30*            | 425*           | <b>75</b>        |
| 51-70 y          | <b>700</b>        | <b>15</b>         | <b>15</b>        | 90*               | 1.1            | 1.1               | <b>14</b>     | <b>1.5</b>                    | <b>400</b>     | <b>2.4</b>                      | 5*                      | 30*            | 425*           | <b>75</b>        |
| > 70 y           | <b>700</b>        | <b>20</b>         | <b>15</b>        | 90*               | 1.1            | 1.1               | <b>14</b>     | <b>1.5</b>                    | <b>400</b>     | <b>2.4</b>                      | 5*                      | 30*            | 425*           | <b>75</b>        |
| <b>Pregnancy</b> |                   |                   |                  |                   |                |                   |               |                               |                |                                 |                         |                |                |                  |
| 14-18 y          | <b>750</b>        | <b>15</b>         | <b>15</b>        | 75*               | 1.4            | 1.4               | <b>18</b>     | <b>1.9</b>                    | <b>600</b>     | <b>2.6</b>                      | 6*                      | 30*            | 450*           | <b>80</b>        |
| 19-30 y          | <b>770</b>        | <b>15</b>         | <b>15</b>        | 90*               | 1.4            | 1.4               | <b>18</b>     | <b>1.9</b>                    | <b>600</b>     | <b>2.6</b>                      | 6*                      | 30*            | 450*           | <b>85</b>        |
| 31-50 y          | <b>770</b>        | <b>15</b>         | <b>15</b>        | 90*               | 1.4            | 1.4               | <b>18</b>     | <b>1.9</b>                    | <b>600</b>     | <b>2.6</b>                      | 6*                      | 30*            | 450*           | <b>85</b>        |
| <b>Lactation</b> |                   |                   |                  |                   |                |                   |               |                               |                |                                 |                         |                |                |                  |
| 14-18 y          | <b>1,200</b>      | <b>15</b>         | <b>19</b>        | 75*               | 1.4            | 1.6               | <b>17</b>     | <b>2.0</b>                    | <b>500</b>     | <b>2.8</b>                      | 7*                      | 35*            | 550*           | <b>115</b>       |
| 19-30 y          | <b>1,300</b>      | <b>15</b>         | <b>19</b>        | 90*               | 1.4            | 1.6               | <b>17</b>     | <b>2.0</b>                    | <b>500</b>     | <b>2.8</b>                      | 7*                      | 35*            | 550*           | <b>120</b>       |
| 31-50 y          | <b>1,300</b>      | <b>15</b>         | <b>19</b>        | 90*               | 1.4            | 1.6               | <b>17</b>     | <b>2.0</b>                    | <b>500</b>     | <b>2.8</b>                      | 7*                      | 35*            | 550*           | <b>120</b>       |

## Minerals

| Life Stage Group | Calcium (mg/d) | Phosphorus (mg/d) | Magnesium (mg/d) | Fluoride (mg/d) | Selenium (mcg/d) | Chromium (mcg/d) | Copper (mcg/d) | Iodine (mcg/d) | Iron (mg/d) | Manganese (mg/d) | Molybdenum (mcg/d) | Zinc (mg/d) |
|------------------|----------------|-------------------|------------------|-----------------|------------------|------------------|----------------|----------------|-------------|------------------|--------------------|-------------|
| <b>Infants</b>   |                |                   |                  |                 |                  |                  |                |                |             |                  |                    |             |
| 0-6 mo           | 200*           | 100*              | 30*              | 0.01*           | 15*              | 0.2*             | 200*           | 110*           | 0.27*       | 0.003*           | 2*                 | 2*          |
| 7-12 mo          | 260*           | 275*              | 75*              | 0.5*            | 20*              | 5.5              | 220*           | 130*           | 11          | 0.6*             | 3*                 | 3           |
| <b>Children</b>  |                |                   |                  |                 |                  |                  |                |                |             |                  |                    |             |
| 1-3 y            | 700            | 460               | 80               | 0.7*            | 20               | 11*              | 340            | 90             | 7           | 1.2*             | 17                 | 3           |
| 4-8 y            | 1,000          | 500               | 130              | 1*              | 30               | 15*              | 440            | 90             | 10          | 1.5*             | 22                 | 5           |
| <b>Males</b>     |                |                   |                  |                 |                  |                  |                |                |             |                  |                    |             |
| 9-13 y           | 1,300          | 1,250             | 240              | 2*              | 40               | 25*              | 700            | 120            | 8           | 1.9*             | 34                 | 8           |
| 14-18 y          | 1,300          | 1,250             | 410              | 3*              | 55               | 35*              | 890            | 150            | 11          | 2.2*             | 43                 | 11          |
| 19-30 y          | 1,000          | 700               | 400              | 4*              | 55               | 35*              | 900            | 150            | 8           | 2.3*             | 45                 | 11          |
| 31-50 y          | 1,000          | 700               | 420              | 4*              | 55               | 35*              | 900            | 150            | 8           | 2.3*             | 45                 | 11          |
| 51-70 y          | 1,000          | 700               | 420              | 4*              | 55               | 30*              | 900            | 150            | 8           | 2.3*             | 45                 | 11          |
| > 70 y           | 1,200          | 700               | 420              | 4*              | 55               | 30*              | 900            | 150            | 8           | 2.3*             | 45                 | 11          |
| <b>Females</b>   |                |                   |                  |                 |                  |                  |                |                |             |                  |                    |             |
| 9-13 y           | 1,300          | 1,250             | 240              | 2*              | 40               | 21*              | 700            | 120            | 8           | 1.6*             | 34                 | 8           |
| 14-18 y          | 1,300          | 1,250             | 360              | 3*              | 55               | 24*              | 890            | 150            | 15          | 1.6*             | 43                 | 9           |
| 19-30 y          | 1,000          | 700               | 310              | 3*              | 55               | 25*              | 900            | 150            | 18          | 1.8*             | 45                 | 8           |
| 31-50 y          | 1,000          | 700               | 320              | 3*              | 55               | 25*              | 900            | 150            | 18          | 1.8*             | 45                 | 8           |
| 51-70 y          | 1,200          | 700               | 320              | 3*              | 55               | 20*              | 900            | 150            | 8           | 1.8*             | 45                 | 8           |
| > 70 y           | 1,200          | 700               | 320              | 3*              | 55               | 20*              | 900            | 150            | 8           | 1.8*             | 45                 | 8           |
| <b>Pregnancy</b> |                |                   |                  |                 |                  |                  |                |                |             |                  |                    |             |
| 14-18 y          | 1,300          | 1,250             | 400              | 3*              | 60               | 29*              | 1,000          | 220            | 27          | 2.0+*            | 50                 | 12          |
| 19-30 y          | 1,000          | 700               | 350              | 3*              | 60               | 30*              | 1,000          | 220            | 27          | 2.0+*            | 50                 | 11          |
| 31-50 y          | 1,000          | 700               | 360              | 3*              | 60               | 30*              | 1,000          | 220            | 27          | 2.0+*            | 50                 | 11          |
| <b>Lactation</b> |                |                   |                  |                 |                  |                  |                |                |             |                  |                    |             |
| 14-18 y          | 1,300          | 1,250             | 360              | 3*              | 70               | 44*              | 1,300          | 290            | 10          | 2.6*             | 50                 | 13          |
| 19-30 y          | 1,000          | 700               | 310              | 3*              | 70               | 45*              | 1,300          | 290            | 9           | 2.6*             | 50                 | 12          |
| 31-50 y          | 1,000          | 700               | 320              | 3*              | 70               | 45*              | 1,300          | 290            | 9           | 2.6*             | 50                 | 12          |

## Acceptable Macronutrient Distribution Ranges

| Macronutrient                                       | Range (percent of energy) |                  |           |
|---|---------------------------|------------------|-----------|
|   | Children, 1-3 y           | Children, 4-18 y | Adults    |
| Fat   | 30 - 40                   | 25 - 35          | 20 - 35   |
| n-6 polyunsaturated fatty acids* (linoleic acid)    | 5 - 10                    | 5 - 10           | 5 - 10    |
| n-3 polyunsaturated fatty acids* (α-linolenic acid) | 0.6 - 1.2                 | 0.6 - 1.2        | 0.6 - 1.2 |
| Carbohydrate  | 45 - 65                   | 45 - 65          | 45 - 65   |
| Protein   | 5 - 20                    | 10 - 30          | 10 - 35   |

\* Approximately 10% of the total can come from longer-chain n-3 or n-6 fatty acids.





**www.Nutricia-NA.com**

- Provides an overview of Nutricia North America.



**www.NutriciaLearningCenter.com**

- A community hub and trusted, collective resource for healthcare providers managing patients with special nutritional needs.
- CE-eligible webinars by esteemed experts.
- Clinician resources, patient resources and case studies.



**www.Neocate.com**

- **Updated 2018!** New Healthcare Professional pages provide detailed product information.
- Neocate Footsteps provides families with valuable resources and support at each step of a patient's journey when diagnosed with food allergies and related conditions. Through Footsteps patients and families will have access to:
  - Assistance to gain insurance coverage for Neocate.
  - Support in adjusting to a new lifestyle at home through transition guides, allergy-friendly recipes, and informational videos.
  - Resources to adapt in social settings through helpful tips and support through social communities.
- And more!



**www.MedicalFood.com and www.DietForLife.com**

- Interactive, online resources for the metabolic community with news, recipes, and community forums.
- Feature online metabolic shops including convenient low protein foods, integral to low protein diets.



**www.MedicalFood.com/Connect**

- Nutricia Connect provides the resources your patients need to help them live their best life while managing a metabolic disorder.
- One-on-one support to obtain formula coverage at no cost to families.
- Easy to understand disorder and product specific education.
- Support resources to help answer questions and help families meet their diet goals.
- And more!



**www.MyKetoCal.com**

- Provides valuable resources and educational materials for clinicians and families.
- Locate a ketogenic diet center in North America by using the "Find a Ketogenic Center" tool.
- Helpful recipes and tools for families and dietitians using the ketogenic diet.



**www.MyKetoCal.com/KetocalConnect**

- Provides patients and caregivers the resources they need to successfully start and stay on the ketogenic diet. Dedicated pillars of support to provide information about KetoCal's:
  - Trusted products
  - Coverage and cost assistance
  - Caregiver support
  - Tasty ketogenic recipes



**www.SpecializedAdultNutrition.com**

- Educates clinicians and consumers about Nutricia's Specialized Adult Nutrition products.
- Features tips, recipes and information on how to order our products.





# NUTRICIA PRODUCT REFERENCE GUIDE

FOR CLINICIANS



To order or for additional information, call **(800) 365-7354**

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