



**NUTRICIA PRODUCT  
REFERENCE GUIDE  
FOR US CLINICIANS**

Updated as of March 2026

## Nutricia Contacts

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## How to Contact Nutricia

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### 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.
- Pioneering nutritional solutions to help people live longer, more joyful and healthier lives.

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 to our customers. We look forward to hearing from you.

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### 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.



For the most up to date information please scan the QR code.



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## GI/ALLERGY



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



## Pepticate™ Infant Formula

A hypoallergenic, powdered, nutritionally complete, extensively hydrolyzed formula (eHF) specifically formulated for infants with cow milk allergy and colic related to cow milk allergy. Pepticate is the #1 best tasting hypoallergenic eHF rated by parents.\* Pepticate contains iron, DHA, ARA, nucleotides, lactose, and a clinically tested blend of prebiotics, scGOS & lcFOS.

### Main Features:

- 1:1 mixing
- Hypoallergenic
- Contains lactose, which is found naturally in human milk,<sup>1</sup> helping make the formula more palatable<sup>2</sup>
- Contains nucleotides, which are naturally present in human milk,<sup>3</sup> and shown to help support the immune system<sup>4</sup>
- Prebiotic fiber blend of scGOS/lcFOS to support infant digestive health<sup>5,6</sup>
- DHA at 0.38% fatty acids; DHA and ARA at 1:1 ratio
- Osmolality: 300 mOsm/kg H<sub>2</sub>O<sup>1</sup>
- Free water: ~90%<sup>1</sup>
- Potential renal solute load: 158 mOsm/L<sup>1</sup>
- Displacement: 0.69 mL/g
- Energy distribution:
 

Protein	9.6%
Carbohydrate	47.9%
Fat (MCT 15%/LCT 85%)	42.5%

### Indications:

- Cow milk allergy
- Colic related to cow milk allergy

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

### Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
Can 197602	749735-0010-11	B4161	1 x 375 g (13.2 oz)	1774
Case 199359	749735-1010-25	B4161	4 x 375 g (13.2 oz)	1774

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

**Not suitable for infants with galactosemia due to the presence of lactose.**

\*Based on a March 2024 nationwide taste test among parents of powdered eHFs.

<sup>1</sup>At standard dilution, 20 kcal/fl oz

scGOS= short-chain galacto-oligosaccharides; lcFOS=long-chain fructooligosaccharides

1. Kunz, et al. *Annu Rev Nutr.* 2000;20:699-722. 2. Maslin et al. *Pediatr Allergy Immunol.* 2018;29:857-62. 3. Field. *J Nutr.* 2005;135:1-4. 4. Gutiérrez-Castrellón, et al. *Br J Nutr.* 2007;98:S64-7. 5. Moro, et al. *J Pediatr Gastroenterol Nutr.* 2002;34:291-5. 6. Knol, et al. *J Pediatr Gastroenterol Nutr.* 2003;36:566.

### Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal	Minerals	Per 100 g	Per 100 kcal
Calories	473	100	Calcium, mg	488	103
Protein Equivalent, g	11.4	2.4	Phosphorus, mg	307	65.0
Fat, g	22.3	4.7	Magnesium, mg	47.7	10.1
Linoleic Acid, mg	3755	794	Iron, mg	6.9	1.5
Carbohydrate, g	59.1	12.5	Zinc, mg	4.3	0.90
Soluble Fiber, g	3.4	0.72	Manganese, mcg	47.5	10.0
<b>Vitamins</b>			Copper, mcg	313	66.2
Vitamin A, IU (mcg RE)	1367 (410)	289 (86.7)	Iodine, mcg	96.1	20.3
Vitamin D, IU (mcg)	320 (8.0)	68.0 (1.7)	Selenium, mcg	17.3	3.7
Vitamin E, IU (mg α-TE)	12.6 (8.5)	2.7 (1.8)	Sodium, mg	164	34.7
Vitamin K, mcg	36.0	7.6	Potassium, mg	493	104
Thiamine, mcg	476	101	Chloride, mg	354	74.9
Riboflavin, mcg	1005	212			
Vitamin B <sub>6</sub> , mcg	247	52.3			
Vitamin B <sub>12</sub> , mcg	0.84	0.18			
Niacin, mcg	5011	1059			
Folic acid, mcg	73.5	15.5			
Pantothenic acid, mcg	3857	815			
Biotin, mcg	12.0	2.5			
Vitamin C, mg	48.8	10.3			
Choline, mg	113	23.9			
Inositol, mg	38.8	8.2			

### Ingredients:

Maltodextrin, Whey Protein Hydrolysate (Milk),<sup>9</sup> Refined Vegetable Oils (Palm, Coconut, Canola, and Sunflower Oils), Galacto-Oligosaccharides (Milk), and less than 2% of each of the following: Calcium Phosphate, Citric Acid Esters of Mono- and Diglycerides, Fructooligosaccharides, Tuna Fish Oil,<sup>1</sup> Potassium Chloride, Magnesium Hydrogen Phosphate, *M. Alpina* Oil,<sup>11</sup> Sodium Chloride, Choline Chloride, L-Tyrosine, L-Ascorbic Acid, Inositol, Taurine, Sodium L-Ascorbate, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, Sodium Citrate, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Nicotinamide, Copper Sulfate, DL-Alpha Tocopherol, Vitamin A Palmitate, Riboflavin, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Potassium Iodide, Folic Acid, Manganese Sulfate, Sodium Selenite, Phylloquinone, D-Biotin, Vitamin D<sub>2</sub>, Cyanocobalamin, Ascorbyl Palmitate, Calcium Hydroxide, Potassium Hydroxide, Nucleotides (Disodium Uridine 5'-Monophosphate, Cytidine 5'-Monophosphate, Disodium Inosine 5'-Monophosphate, Adenosine 5'-Monophosphate, Disodium Guanosine 5'-Monophosphate).

<sup>9</sup>Modified to be better tolerated in infants with cow milk allergy.

<sup>1</sup>A source of docosahexaenoic acid (DHA)

<sup>11</sup>A source of arachidonic acid (ARA)



## Neocate® Syneo® Infant

A hypoallergenic, nutritionally complete, powdered, amino acid-based formula specifically formulated for infants and toddlers with cow milk allergy, multiple food allergies and related GI and allergic conditions. Neocate Syneo is the only patented hypoallergenic formula containing Syneo, a unique blend of prebiotics scFOS/lcFOS and probiotic *B. breve* M-16V specifically selected for infants with food allergies. Neocate Syneo also contains iron, DHA, ARA and nucleotides.

### Main Features:

- 1:1 mixing
- Hypoallergenic
- Backed by 4 clinical trials, clinically shown to:
  - Effectively relieves food allergy symptoms when used as part of dietary management<sup>1</sup>
  - Support growth and development<sup>1-5</sup>
  - Target gut dysbiosis and help balance the gut microbiota in infants with food allergies<sup>3-6</sup>
- Probiotic *Bifidobacterium breve* M-16V
- Prebiotic fiber blend of scFOS and lcFOS
- Nucleotides added (present in human milk<sup>7</sup>)
- DHA at 0.37% fatty acids
- Osmolality: 360 mOsm/kg H<sub>2</sub>O\*
- Free water: ~90%\*
- Potential renal solute load: 176 mOsm/L\*
- Displacement: 0.71 mL/g
- Kosher Pareve & Halal
- Energy distribution:
 

Protein	11.5%
Carbohydrate	44.7%
Fat (MCT 33%/LCT 67%)	43.8%

### Indications:

- Cow milk allergy
- Multiple food allergies
- Related gastrointestinal (GI) and allergic conditions, including:
  - Gastroesophageal reflux (GER) related to food allergies
  - Eosinophilic GI disorders (EGIDs)
  - Food protein-induced enterocolitis syndrome (FPIES)

For details on scoop size, household measures, sample information 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
127049	49735-0114-36	B4161	4 x 400 g (14.1 oz)	1884

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

### Nutrition Information:

Nutrients	Per 100 g		Minerals	Per 100 g	
	Per 100 g	Per 100 kcal		Per 100 g	Per 100 kcal
Calories	471	100	Calcium, mg	563	120
Protein Equivalent, g	13.5	2.9	Phosphorus, mg	389	82.6
Fat, g	23.0	4.9	Magnesium, mg	496	10.5
Linoleic Acid, mg	3379	718	Iron, mg	72	15
Carbohydrate, g	53.5	11.4	Zinc, mg	5.2	1.1
Soluble Fiber, g	4.3	0.90	Manganese, mcg	198	42.1
<b>Vitamins</b>					
Vitamin A, IU (mcg RE)	1365 (410)	290 (87.1)	Iodine, mcg	104	22.1
Vitamin D, IU (mcg)	367 (9.2)	77.9 (2.0)	Molybdenum, mcg	110	2.3
Vitamin E, IU (mg α-TE)	7.9 (5.3)	1.7 (1.1)	Chromium, mcg	12.2	2.6
Vitamin K, mcg	42.5	9.0	Selenium, mcg	14.2	3.0
Thiamine, mcg	539	115	Sodium, mg	188	39.8
Riboflavin, mcg	540	115	Potassium, mg	512	109
Vitamin B <sub>6</sub> , mcg	539	115	Chloride, mg	372	78.9
Vitamin B <sub>12</sub> , mcg	1.3	0.28			
Niacin, mcg	4904	1042			
Folic Acid, mcg	638	13.5			
Pantothenic Acid, mcg	2957	628			
Biotin, mcg	191	4.1			
Vitamin C, mg	516	11.0			
Choline, mg	95.4	20.3			
Inositol, mg	108	22.9			

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (Medium Chain Triglycerides [Palm Kernel And/Or Coconut Oil], High Oleic Sunflower, Sunflower, And Canola Oils), Oligofructose), and less than 2% of each of the following: Inulin, 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, 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,<sup>1</sup> *Schizochytrium sp.* Oil,<sup>2</sup> M-Inositol, L-Ascorbic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, Niacinamide, Calcium D-Pantothenate, DL-Alpha Tocopheryl Acetate, *Bifidobacterium breve* M-16V, Ascorbyl Palmitate, Manganese Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Cupric Sulfate, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Potassium Iodide, Folic Acid, Mixed Tocopherols, Chromium Chloride, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin, Nucleotides (Disodium Uridine 5'-Monophosphate, Cytidine 5'-Monophosphate, Disodium Inosine 5'-Monophosphate, Adenosine 5'-Monophosphate, Disodium Guanosine 5'-Monophosphate).

<sup>1</sup>A source of arachidonic acid (ARA)

<sup>2</sup>A source of docosahexaenoic acid (DHA)

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

\*At standard dilution, 20 kcal/fl oz

scFOS = short-chain fructooligosaccharides; lcFOS = long-chain fructooligosaccharides

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. 4. Fox, et al. *Clin Transl Allergy.* 2019;9:5. 5. Chatchatee, et al. *J Allergy Clin Immunol.* 2022;149:650-8e5. 6. Wopereis, et al. *Clin Transl Allergy.* 2019;9:27. 7. Hodgkinson, et al. *Nutr Res.* 2022;99:13-24.



## Neocate® Infant

A hypoallergenic, nutritionally complete, powdered, amino acid-based formula specifically formulated for infants with cow milk allergy, multiple food allergies and related GI and/or allergic conditions. Neocate Infant contains iron, DHA, ARA and nucleotides.

### Main Features:

- 1:1 mixing
- Hypoallergenic
- Nucleotides added (present in human milk<sup>1</sup>)
- DHA at 0.37% fatty acids
- Osmolality: 340 mOsm/kg H<sub>2</sub>O\*
- Free water: ~90%\*
- Potential renal solute load: 177mOsm/L\*
- Displacement: 0.70 mL/g
- Kosher Pareve & Halal
- Energy distribution:
 

Protein	11.1%
Carbohydrate	43.7%
Fat (MCT 33% / LCT 67%)	45.2%

\*At standard dilution, 20kcal/fl oz

<sup>1</sup>Malabsorption describes a diminished capacity for the body to sufficiently absorb and/or digest fat, protein, carbohydrate, and other nutrients from the diet to meet nutritional needs.

<sup>1</sup> Hodgkinson, et al. Nutr Res. 2022;99:13-24.

### Indications:

- Cow milk allergy
- Multiple food allergies
- Related gastrointestinal (GI) and/or allergic conditions, including:
  - Gastroesophageal reflux (GER) related to food allergies
  - Eosinophilic GI disorders (EGIDs)
  - Food protein-induced enterocolitis syndrome (FPIES)
  - Short bowel syndrome (SBS)
  - Malabsorption<sup>1</sup>

*For details on scoop size, household measures, sample information 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
125626	49735-0125-95	B4161	4 x 400 g (14.1 oz)	1948

**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	487	100	Calcium, mg	576	118
Protein Equivalent, g	13.5	2.8	Phosphorus, mg	396	81.3
Fat, g	24.5	5.0	Magnesium, mg	50.8	10.4
Linoleic Acid, mg	3565	732	Iron, mg	7.4	1.5
Carbohydrate, g	52.0	10.7	Zinc, mg	5.4	1.1
<b>Vitamins</b>			Manganese, mcg	204	41.9
Vitamin A, IU (mcg RE)	1365 (410)	280 (84.2)	Copper, mcg	418	85.8
Vitamin D, IU (mcg)	367 (9.2)	75.3 (19)	Iodine, mcg	104	21.4
Vitamin E, IU (mg α T.E.)	7.9 (5.3)	1.6 (1.1)	Molybdenum, mcg	113	2.3
Vitamin K, mcg	42.5	8.7	Chromium, mcg	12.6	2.6
Thiamine, mcg	539	111	Selenium, mcg	14.6	3.0
Riboflavin, mcg	540	111	Sodium, mg	190	39
Vitamin B <sub>6</sub> , mcg	539	111	Potassium, mg	524	108
Vitamin B <sub>12</sub> , mcg	1.3	0.27	Chloride, mg	379	77.8
Niacin, mcg	4904	1007			
Folic Acid, mcg	63.8	13.1			
Pantothenic Acid, mcg	2957	607			
Biotin, mcg	191	3.9			
Vitamin C, mg	51.6	10.6			
Choline, mg	95.4	19.6			
Inositol, mg	108	22.2			

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (Medium Chain Triglycerides [Palm Kernel And/Or Coconut Oil], High Oleic Sunflower, Sunflower, And Canola Oils), 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, 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,<sup>§</sup> *Schizochytrium sp.* Oil,<sup>‡</sup> M-Inositol, L-Ascorbic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, Niacinamide, Calcium D-Pantothenate, DL-Alpha Tocopheryl Acetate, Ascorbyl Palmitate, Manganese Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Cupric Sulfate, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Potassium Iodide, Folic Acid, Mixed Tocopherols, Chromium Chloride, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin, Nucleotides (Disodium Uridine 5'-Monophosphate, Cytidine 5'-Monophosphate, Disodium Inosine 5'-Monophosphate, Adenosine 5'-Monophosphate, Disodium Guanosine 5'-Monophosphate).

<sup>§</sup>A source of arachidonic acid (ARA)

<sup>‡</sup>A source of docosahexaenoic acid (DHA)



## Neocate® Spoon

The first and only hypoallergenic, amino acid-based, cereal-style option for infants and children 6 months of age and older with cow milk allergy, multiple food allergies and related GI and/or allergic conditions.

### Main Features:

- Cereal-style option to promote oral development<sup>1</sup>
- Hypoallergenic
- Gluten free
- High in calcium
- Good source of vitamin D, zinc, and iron
- No artificial colors, flavors, or sweeteners
- Energy distribution:
 

Protein	7.0%
Carbohydrate	57.0%
Fat (MCT 4% / LCT 96%)	36.0%

### Indications:

- Cow milk allergy
- Multiple food allergies
- Related gastrointestinal (GI) and/or allergic conditions, including:
  - Gastroesophageal reflux (GER) related to food allergies
  - Eosinophilic GI disorders (EGIDs)
  - Short bowel syndrome (SBS)
  - Malabsorption\*

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

### Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
66739	49735-0167-39	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	210	78
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, 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
Thiamine, mcg	250	90	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	0.60	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, Rice Starch, Refined Vegetable Oil (Non-Hydrogenated Coconut, High Oleic Sunflower, Canola, Sunflower), Sugar, Calcium Phosphate Tribasic, contains 2% or less than each of the following: L-Arginine-L-Aspartate, L-Leucine, L-Lysine Acetate, Citric Acid Esters of Mono- and Diglycerides, 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, Thiamine 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® Syneo® Junior

A hypoallergenic, nutritionally complete, powdered, amino acid-based formula specifically formulated for children 1-10 years of age with cow milk allergy, multiple food allergies and related GI and allergic conditions. Neocate Junior is the #1 best-tasting unflavored 1+ AAF in the U.S.\* Neocate Syneo is the only patented hypoallergenic formula containing Syneo, a unique blend of scFOS/lcFOS and *B. breve* M-16V specifically selected for toddlers with food allergies.

### Main Features:

- 1:1 mixing
- Hypoallergenic
- Suitable as a sole source of nutrition for children 1-10 years of age
- Probiotic *Bifidobacterium breve* M-16V
- Prebiotic fiber blend of scFOS and lcFOS
- Osmolality: 600 mOsm/kg<sup>†</sup>
- Free water: ~85%<sup>‡</sup>
- Displacement: 0.74 mL/g
- Kosher Pareve & Halal
- Energy distribution:
 

Protein	12.6%
Carbohydrate	44.2%
Fat (MCT 34% / LCT 66%)	43.2%

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

\*Based on a November 2024 nationwide taste test, among parents, of powdered unflavored 1+ AAFs.

<sup>†</sup>At standard dilution, 1 Cal/mL

scFOS= short-chain fructooligosaccharides; lcFOS= long-chain fructooligosaccharides

### Indications:

- Cow milk allergy
- Multiple food allergies
- Related gastrointestinal (GI) and allergic conditions, including:
  - Gastroesophageal reflux (GER) related to food allergies
  - Eosinophilic GI disorders (EGIDs)
  - Food protein-induced enterocolitis syndrome (FPIES)

For details on scoop size, household measures, sample information 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
196062	49735-0100-99	B4161	4 x 400g (14.1 oz)	1876

WIC: Contact your state WIC office to determine availability.

For more reimbursement information see Resources.

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

### Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal	Minerals	Per 100 g	Per 100 kcal
Calories	469	100	Calcium, mg	586	125
Protein Equivalent, g	14.8	3.2	Phosphorus, mg	381	81.3
Fat, g	22.5	4.8	Magnesium, mg	76.5	16.3
Linoleic Acid, mg	3534	753	Iron, mg	7.5	1.6
Carbohydrate, g	53.2	11.3	Zinc, mg	4.7	1.0
Soluble Fiber, g	2.8	0.60	Manganese, Mg	0.31	0.07
<b>Vitamins</b>			Copper, mcg	470	100
Vitamin A, IU (mcg RE)	956 (287)	204 (61.2)	Iodine, mcg	70.8	15.1
Vitamin D, IU (mcg)	380(9.5)	81.0 (2.0)	Molybdenum, mcg	22.5	4.8
Vitamin E, IU (mg α-TE)	9.86 (6.96)	2.1 (1.4)	Chromium, mcg	18.2	3.9
Vitamin K, mcg	19.5	4.2	Selenium, mcg	19.2	4.1
Thiamine, mg	0.48	0.10	Sodium, mg	236	50.4
Riboflavin, mg	0.96	0.20	Potassium, mg	653	139
Vitamin B <sub>6</sub> , mg	0.48	0.10	Chloride, mg	359	76.6
Vitamin B <sub>12</sub> , mcg	1.9	0.41			
Niacin, mg	4.3	0.92			
Folic acid, mcg	85.8	18.3			
Pantothenic acid, mg	1.9	0.41			
Biotin, mcg	14.4	3.1			
Vitamin C, mg	44.6	9.5			
Choline, mg	143	30.5			
Inositol, mg	105	22.3			

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (Medium Chain Triglycerides [Coconut and/or Palm and/or Palm Kernel Oils], High Oleic Sunflower, Canola, and Sunflower Oils), Fructooligosaccharides (Oligofructose, Inulin), L-Serine, and less than 2% of the following: L-Glutamine, Glycine, L-Alanine, L-Leucine, L-Lysine Acetate, L-Threonine, L-Tyrosine, Dipotassium Phosphate, L-Valine, Citric Acid Esters of Mono- and Diglycerides, Tricalcium Phosphate, L-Isoleucine, Tripotassium Citrate, Calcium Carbonate, L-Proline, L-Cystine, L-Phenylalanine, L-Histidine, Magnesium Hydrogen Phosphate, Sodium Chloride, L-Methionine, Choline Bitartrate, L-Arginine, Sodium Citrate, L-Tryptophan, Magnesium Chloride, Calcium Chloride, M-Inositol, L-Ascorbic Acid, Sunflower Lecithin, Taurine, Ferrous Sulfate, L-Carnitine, *Bifidobacterium breve* M-16V, Zinc Sulfate, Ascorbyl Palmitate, Niacinamide, Calcium D-Pantothenate, DL-alpha Tocopheryl Acetate, Copper Sulfate, Riboflavin, Manganese Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, DL-alpha Tocopherol, Sodium Molybdate, Sodium Selenite, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.



## Neocate® Junior, Unflavored (without prebiotics)

A hypoallergenic, nutritionally complete, powdered, amino acid-based formula specifically formulated for individuals one year of age and older with cow milk allergy, multiple food allergies and related GI and/or allergic conditions. Neocate Junior is the #1 best-tasting unflavored 1+ AAF in the U.S.\*

### Main Features:

- 1:1 mixing
- Hypoallergenic
- Nutritionally complete
- Osmolality: 600 mOsm/kg H<sub>2</sub>O<sup>†</sup>
- Free water: ~86%<sup>†</sup>
- Kosher Pareve & Halal
- Displacement: 0.69 mL/g
- Energy distribution:
 

Protein	12.4%
Carbohydrate	42.6%
Fat (MCT 35% / LCT 65%)	45%

### Indications:

- Cow milk allergy
- Multiple food allergies
- Related gastrointestinal (GI) and/or allergic conditions:
  - Gastroesophageal reflux (GER) related to food allergies
  - Eosinophilic GI disorders (EGIDs)
  - Food protein-induced enterocolitis syndrome (FPIES)
  - Short bowel syndrome (SBS)
  - Malabsorption<sup>‡</sup>

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, sample information 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
127048	49735-0117-90	B4161 or B4153	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		Minerals	Per 100 g	
	Per 100 kcal	Per 100 kcal		Per 100 g	Per 100 kcal
Calories	479	100	Calcium, mg	565	118
Protein Equivalent, g	14.8	3.1	Phosphorus, mg	382	798
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, IU (mcg)	380 (95)	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
Thiamine, 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, Canola Oil, Sunflower 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, 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, Thiamine 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.

\*Based on a November 2024 nationwide taste test, among parents, of powdered unflavored 1+ AAFs.

<sup>†</sup>At standard dilution, 1 kcal/mL

<sup>‡</sup>Malabsorption describes a diminished capacity for the body to sufficiently absorb and/or digest fat, protein, carbohydrate, and other nutrients from the diet to meet nutritional needs.



## Neocate® Junior

A hypoallergenic, nutritionally complete, powdered, amino acid-based formula specifically formulated for individuals one year of age and older with cow milk allergy, multiple food allergies and related GI and/or allergic conditions. Neocate Junior contains prebiotic fibers scFOS and lcFOS to support digestive health.

### Main Features:

- 1:1 mixing
- Hypoallergenic
- Contains prebiotic fibers scFOS and lcFOS to support digestive health
- Nutritionally complete
- Great-tasting Neocate Junior shown to help support adherence (92%) in one clinical trial<sup>1</sup>
- Kosher Pareve and Halal (Strawberry is Halal but not Kosher Pareve)

	Strawberry	Vanilla	Chocolate
Osmolality (mOsm/kg H <sub>2</sub> O) <sup>1</sup>	610	620	660
Free water <sup>1</sup>	~85%	~85%	~85%
Displacement, mL/g	0.70	0.70	0.70
Energy distribution:			
Protein	12.6%	12.7%	12.4%
Carbohydrate	43.2%	43.1%	44.2%
Fat (MCT 35%/LCT 65%)	44.2%	44.2%	43.4%

<sup>1</sup>At standard dilution, 1 Cal/mL

<sup>1</sup>Malabsorption describes a diminished capacity for the body to sufficiently absorb and/or digest fat, protein, carbohydrate, and other nutrients from the diet to meet nutritional needs.

1. Sorensen, et al. Allergy. 2017;72:523(0899).

### Indications:

- Cow milk allergy
- Multiple food allergies
- Related gastrointestinal (GI) and/or allergic conditions:
  - Gastroesophageal reflux (GER) related to food allergies
  - Eosinophilic GI disorders (EGIDs)
  - Food protein-induced enterocolitis syndrome (FPIES)
  - Short bowel syndrome (SBS)
  - Malabsorption<sup>1</sup>

For details on scoop size, household measures, sample information 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
133282 - Vanilla	49735-0106-27	B4161 or B4153	4 x 400 g (14.1 oz)	1872
133280 - Strawberry	49735-0164-56	B4161 or B4153	4 x 400 g (14.1 oz)	1872
133283 - Chocolate	49735-0126-90	B4161 or B4153	4 x 400 g (14.1 oz)	1828

WIC: Contact your state WIC office to determine availability.

For more reimbursement information see Resources.

Meets or exceeds 100% DRIs<sup>5</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

### Nutrition Information:

	Strawberry		Vanilla		Chocolate	
	per 100g	per 100kcal	per 100g	per 100kcal	per 100g	per 100kcal
Calories	468	100	468	100	457	0
Protein Equivalent, g	14.8	3.2	14.8	3.2	14.2	3.1
Fat, g	23	4.9	23	4.9	22	4.8
Carbohydrate, g	515	11	514	11	514	113
Soluble Fiber, g	1.9	0.41	1.9	0.41	1.9	0.42
<b>Vitamins</b>						
Vit. A, IU (mcg RE)	956 (287)	204 (613)	956 (287)	204 (613)	956 (287)	209 (62.9)
Vit. D, IU (mcg)	380 (9.5)	811 (2.0)	380 (9.5)	812 (2.0)	380 (9.5)	832 (21)
Vit. E, IU (mg α-TE)	10 (6.7)	2.1 (14)	10 (6.7)	2.1 (14)	20 (6.7)	2.2 (15)
Vit. K, mcg	192	4.1	192	4.1	192	4.2
Thiamine, mg	0.48	0.1	0.48	0.1	0.48	0.11
Riboflavin, mg	0.96	0.2	0.96	0.21	0.96	0.21
Vit. B <sub>6</sub> , mg	0.48	0.1	0.48	0.1	0.48	0.11
Vit. B <sub>12</sub> , mg	1.9	0.41	1.9	0.41	1.9	0.42
Niacin, mg	4.3	0.92	4.3	0.92	4.3	0.94
Folic Acid, mcg	143	31	143	30.6	143	31.3
Pantothenic Acid, mg	1.9	0.41	1.9	0.41	1.9	0.42
Biotin, mcg	14.4	3.1	14.4	3.1	14.4	3.2
Vit. C, mg	44.6	9.5	44.6	9.5	44.6	9.8
Choline, mg	143	30.5	143	30.6	143	31.3
Inositol, mg	105	22.4	105	22.4	105	23
<b>Minerals</b>						
Calcium, mg	565	121	565	121	565	124
Phosphorus, mg	382	81.6	382	81.6	382	83.7
Magnesium, mg	76.5	16.3	76.5	16.3	76.5	16.8
Iron, mg	7.4	1.6	7.4	1.6	7.4	1.6
Zinc, mg	4.7	1	4.7	1	4.7	1
Manganese, mg	0.62	0.13	0.62	0.13	0.62	0.14
Copper, mcg	530	113	530	113	530	116
Iodine, mcg	85.2	18.2	85.2	18.2	85.2	18.7
Molybdenum, mcg	215	4.6	215	4.6	215	4.7
Chromium, mcg	18	3.8	18	3.8	18	3.9
Selenium, mcg	19.2	4.1	19.2	4.1	19.2	4.2
Sodium, mg	239	51	239	51.1	239	52.3
Potassium, mg	65.3	13.9	65.3	14.0	65.3	14.3
Chloride, mg	364	77.7	364	77.8	364	79.7

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oil (Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), High Oleic Sunflower Oil, Canola Oil, Sunflower 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, 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, Thiamine 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.



## Neocate® Splash Junior

The first and only hypoallergenic, nutritionally complete, ready-to-feed amino acid-based formula specifically formulated for individuals one year of age and older with cow milk allergy, multiple food allergies and related GI and/or allergic conditions.

### Main Features:

- Hypoallergenic
- Nutritionally complete
- Sterile liquid, ideal for in- and outpatient use
- Convenient ready-to-feed 8 fl oz cartons (for oral and/or tube feeding)
- Gluten free
- Energy density = 1 Cal/mL
- Energy distribution:
 

Protein	12.0%
Carbohydrate	42.0%
Fat (MCT 35% / LCT 65%)	46.0%
- Osmolality (mOsm/kg H<sub>2</sub>O):
 

670 (Unflavored), 740 (Grape), 710 (Vanilla)
790 (Orange-Pineapple, Tropical Fruit)
- Free water:
 

~80% (Unflavored, Vanilla, Grape)
~79% (Orange-Pineapple, Tropical)

\*Malabsorption describes a diminished capacity for the body to sufficiently absorb and/or digest fat, protein, carbohydrate, and other nutrients from the diet to meet nutritional needs.

### Indications:

- Cow milk allergy
- Multiple food allergies
- Related gastrointestinal (GI) and/or allergic conditions:
  - Gastroesophageal reflux (GER) related to food allergies
  - Eosinophilic GI disorders (EGIDs)
  - Food protein-induced enterocolitis syndrome (FPIES)
  - Short bowel syndrome (SBS)
  - Malabsorption\*

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

Meets or exceeds  
100% DRIs<sup>5</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 Carton
176678 - Vanilla	49735-0100-59	B4161 and B4153	27 x 237 mL (8 fl oz)	237
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
111394 - 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 Carton (237 mL)	Per 100 mL	Minerals	Per Carton (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 (Vanilla)	690 (770)	291 (325)	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, 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
Thiamine, mg	0.24	0.10	Selenium, mcg	9.5	4.0
Riboflavin, mg	0.47	0.20	Sodium, mg	142	60.0
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, Thiamine Chloride Hydrochloride, Vitamin A Palmitate, Pyridoxine Hydrochloride, Folic Acid, 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.

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



**Neocate Spoon is a semi-solid medical food and is not for bottle or tube feeding.**

- All formulas can be taken orally or tube fed. Not for parenteral use.
  - Neocate Syneo Infant and Junior are not recommended for use in individuals with a central venous catheter or post-pyloric feeding tube unless directed or supervised by a healthcare professional.
- Do not boil or use a microwave to warm formula; serious burns may result.
- When taken orally, formulas intended for individuals one year of age and older are best served chilled.
- Once formula is prepared or carton 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 and opened cans in a cool, dry place. Avoid extreme temperatures. Once opened, use within one month (two weeks for Neocate Syneo Infant and Neocate Syneo Junior).

**Packets:** Store in a cool, dry place.

**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, boil, or use a microwave to warm.

## DIRECTIONS FOR PREPARATION AND USE:

### PEPTICATE, NEOCATE SYNEO INFANT AND NEOCATE INFANT

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.

- Wash hands thoroughly and clean preparation area.
- Pour the required amount of water into bottle.
- Add 1 unpacked, level scoop of powder to each 1 fl oz of water.\*
- Cap bottle; shake well until powder dissolves. Freshly prepared formula is best. Feed immediately OR refrigerate immediately and use within 24 hours. Once feeding begins, use within 1 hour or discard.

### NEOCATE JUNIOR & NEOCATE SYNEO JUNIOR

To make a standard dilution (1 Cal/mL), add 1 unpacked, level scoop of powder to each fluid ounce of water.

- Wash hands thoroughly and clean the preparation area.
- Pour the required amount of water into container.
- Add 1 unpacked, level scoop of powder to each 1 fl oz of water.\*
- Stir, or cover and shake, until the powder has dissolved. Feed OR refrigerate immediately and use within 24 hours. Once feeding begins, use within 1 hour or discard.

**\*For Neocate Syneo Infant and Neocate Syneo Junior: 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.**

### NEOCATE SPOON

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.

- Wash hands thoroughly and clean the preparation area.
- Add the recommended number of scoops of Neocate Nutra to a clean bowl.
- 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 JUNIOR

Shake well before use. Once carton 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 opening.

## Household Measures

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

Measure	Weight	Measure	Weight
<b>Pepticate</b>			
1 scoop	4.8 g	<b>Neocate Syneo Infant</b>	
1/2 tsp	1.4 g	1 scoop	4.7 g
1 tsp	2.8 g	1/2 tsp	1.4 g
1 Tbsp	8.3 g	1 tsp	2.7 g
1/4 cup	33.3 g	1 Tbsp	8.1 g
1/3 cup	44.3 g	1/4 cup	32.5 g
1/2 cup	66.5 g	1/3 cup	43.3 g
1 cup	133 g	1/2 cup	65.0 g
<b>Neocate Infant</b>		<b>Neocate Spoon</b>	
1 scoop	4.6 g	1 scoop	4.6 g
1/2 tsp	1.3 g	1/2 tsp	1.3 g
1 tsp	2.6 g	1 tsp	2.6 g
1 Tbsp	7.9 g	1 Tbsp	7.9 g
1/4 cup	31.5 g	1/4 cup	31.5 g
1/3 cup	42 g	1/3 cup	42 g
1/2 cup	63 g	1/2 cup	63 g
1 cup	126 g	1 cup	126 g

Household measures are based on standard US, dry household measures.<sup>†</sup> 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.

<sup>†</sup> US measures: 1 cup = 240 mL; ½ cup = 120 mL; ¼ cup = 60 mL; 1 Tbsp = 15 mL; 1 tsp = 5 mL; ½ tsp = 2.5 mL

## Household Measures

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

Measure	Weight	Measure	Weight
<b>Neocate Junior, Unflavored (without prebiotics)</b>			
1 scoop	7.3 g	<b>Neocate Syneo Junior</b>	
1/2 tsp	1.3 g	1 scoop	7.6 g
1 tsp	2.5 g	1/2 tsp	1.5 g
1 Tbsp	7.5 g	1 tsp	3.0 g
1/4 cup	30.0 g	1 Tbsp	8.9 g
1/3 cup	40.0 g	1/4 cup	35.8 g
1/2 cup	60.0 g	1/3 cup	47.7 g
1 cup	120 g	1/2 cup	71.5 g
<b>Neocate Junior, Vanilla, and Strawberry</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.<sup>†</sup> 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.

<sup>†</sup> US measures: 1 cup = 240 mL; ½ cup = 120 mL; ¼ cup = 60 mL; 1 Tbsp = 15 mL; 1 tsp = 5 mL; ½ tsp = 2.5 mL

## Pepticate Infant Formula

Visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com) for printable dilution charts and the Neocate and Pepticate Mixing Tool.



### Mixing Charts

#### 20 kcal/fl oz (Standard Mixing)

Water Volume*		Pepticate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
3.0	90	3	14.4	68	3.3	100
5.0	150	5	24.0	114	5.6	165
8.0	240	8	38.4	182	8.9	265
20.0	600	20	96.0	454	22.2	665
25.0	750	24	115	545	27.6	830

#### 26 kcal/fl oz

Water Volume*		Pepticate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
3.0	90.0	4	19.2	90.8	3.4	105
6.0	180	8	38.4	182	6.9	205
9.0	270	12	57.6	272	10.3	310
12.0	360	16	76.8	363	13.8	415
15.0	450	20	96.0	454	17.2	515

#### 22 kcal/fl oz

Water Volume*		Pepticate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
10.0	300	11	52.8	250	11.2	335
15.0	450	16	76.8	363	16.8	505
25.0	750	27	130	613	28.0	840
30.0	900	33	158	749	33.6	1010
40.0	1200	43	206	976	44.7	1340

#### 28 kcal/fl oz

Water Volume*		Pepticate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
11.0	330	16	76.8	363	12.8	385
14.5	435	21	101	477	16.8	505
19.0	570	27	130	613	22.0	660
21.0	630	30	144	681	24.3	730
27.0	810	39	187	885	31.3	940

#### 24 kcal/fl oz

Water Volume*		Pepticate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.0	150	6	28.8	136	5.7	170
7.5	225	9	43.2	204	8.5	255
8.5	255	10	48.0	227	9.6	290
10.0	300	12	57.6	272	11.3	340
20.0	600	24	115	545	22.6	680

#### 30 kcal/fl oz

Water Volume*		Pepticate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
4.5	135	7	33.6	159	5.3	160
10.5	315	16	76.8	363	12.3	370
15.0	450	23	110	522	17.5	525
18.0	540	28	134	636	21.1	635
22.0	660	34	163	772	25.8	775

## Neocate Syneo Infant

Visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com) for printable dilution charts and the Neocate and Pepticate Mixing Tool.



### Mixing Charts

#### 20 kcal/fl oz (Standard Mixing)

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
3.0	90.0	3	14.1	66.4	3.3	100
5.0	150	5	23.5	111	5.5	165
8.0	240	8	37.6	177	9.0	270
22.0	660	22	103	487	24.4	735
30.0	900	30	141	664	33.3	1000

#### 26 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
4.5	135	6	28.2	133	5.2	155
6.0	180	8	37.6	177	6.9	205
9.5	285	13	61.1	288	10.9	330
21.5	645	29	136	642	24.7	740
28.0	840	38	179	841	32.2	965

#### 22 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
4.5	135	5	23.5	111	5.1	150
8.0	240	9	42.3	199	9.0	270
11.0	330	12	56.4	266	12.3	370
21.0	630	23	108	509	23.6	705
29.0	870	32	150	708	32.6	975

#### 28 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.5	165	8	37.6	177	6.4	190
7.5	225	11	51.7	244	8.7	260
9.5	285	14	65.8	310	11.1	330
21.0	630	31	146	686	24.4	735
28.0	840	41	193	908	32.6	975

#### 24 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
6.5	195	8	37.6	177	7.4	220
9.0	270	11	51.7	244	10.2	305
13.0	390	16	75.2	354	14.8	445
21.0	630	26	122	576	23.9	715
28.0	840	35	165	775	31.9	955

#### 30 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
2.5	75.0	4	18.8	88.5	2.9	90.0
5.0	150	8	37.6	177	5.9	175
7.5	225	12	56.4	266	8.8	265
20.0	600	32	150	708	23.6	705
27.0	810	43	202	952	31.8	955

\*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 4.8 grams powder and provides 22.7 kcal. 1 gram provides 4.73 kcal and displaces ~0.69 mL water.

\* 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 22.1 kcal. 1 gram provides 4.71 kcal and displaces ~0.71 mL water.

## Neocate Infant

Visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com) for printable dilution charts and the Neocate and Pepticate Mixing Tool.



### Mixing Charts

#### 20 kcal/fl oz (Standard Mixing)

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
3.0	90.0	3	13.8	67.2	3.3	100
5.0	150	5	23.0	112	5.5	165
8.0	240	8	36.8	179	8.9	265
14.0	420	14	64.4	314	15.5	465
29.0	870	29	133	650	32.2	965

#### 26 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
3.0	90	4	18.4	89.6	3.5	105
6.0	180	8	36.8	179	6.8	205
12.0	360	16	73.6	358	13.7	410
21.0	630	28	128.8	627	24.0	720
27.5	825	36	165.6	806	31.3	940

#### 22 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
4.5	135	5	23.0	112	5.0	150
8.0	240	9	41.4	202	9.0	270
13.5	405	15	69.0	336	15.2	455
21.0	630	23	105.8	515	23.5	705
29.0	870	32	147.2	717	32.5	975

#### 28 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.5	165	8	36.8	179	6.3	190
7.5	225	11	50.6	246	8.7	260
11.0	330	16	73.6	358	12.7	380
21.5	645	31	143	694	24.8	745
28.0	840	40	184	896	32.3	970

#### 24 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
2.5	75.0	3	13.8	67.2	2.8	85.0
6.5	195	8	36.8	179	7.3	220
13.0	390	16	73.6	358	14.7	440
21.5	645	26	119.6	582	24.3	730
28.5	855	35	161	784	32.3	970

#### 30 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
2.5	75	4	18.4	89.6	3.0	90.0
7.0	210	11	50.6	246	8.2	245
12.0	360	19	87.4	426	14.0	420
21.0	630	33	152	739	24.5	735
27.0	810	42	193	941	31.5	945

\* 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 22.4 kcal. 1 gram provides 4.87 kcal and displaces ~0.70 mL water.

## Neocate Syneo Junior

Visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com) for printable dilution charts and the Neocate and Pepticate Mixing Tool.



### Mixing Charts

#### 20 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
8.0	240	5	38.0	178	8.9	270
11.0	330	7	53.2	250	12.3	370
13.0	390	8	60.8	285	14.5	435
19.0	570	12	91.2	428	21.2	635
24.0	720	15	114.0	535	26.8	805

#### 24 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
9.0	270	7	53.2	250	10.3	310
11.5	345	9	68.4	321	13.2	395
14.5	435	11	83.6	392	16.6	495
20.0	600	15	114	535	22.8	685
26.0	780	20	152	713	29.7	890

#### 1 kcal/mL (Standard Mixing)

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
4.0	120	4	30.4	143	4.7	140
7.0	210	7	53.2	250	8.3	250
10.0	300	10	76.0	356	11.9	355
21.0	630	21	160	749	24.9	750
28.0	840	28	213	998	33.2	995

#### 40 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.0	150	7	53.2	250	6.3	190
10.0	300	14	106	499	12.6	380
15.0	450	21	160	749	18.9	570
20.0	600	28	213	998	25.2	755
25.0	750	36	274	1283	31.7	950

\* 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 7.6 grams powder and provides 35.6 kcal. 1 gram provides 4.69 kcal and displaces 0.74 mL water.

#### 22 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
6.5	195	5	38.0	178	7.4	225
10.0	300	7	53.2	250	11.3	340
16.0	480	11	83.6	392	18.1	540
20.0	600	14	106	499	22.6	680
25.0	750	17	129	606	28.2	845

#### 27 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
3.5	105	3	22.8	107	4.1	120
7.0	210	6	45.6	214	8.1	245
14.0	420	12	91.2	428	16.2	485
20.0	600	18	136.8	642	23.4	700
27.0	810	24	182.4	855	31.5	945

#### 36 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
6.5	195	8	60.8	285	8.0	240
9.5	285	12	91.2	428	11.7	350
13.0	390	16	122	570	16.0	480
19.0	570	24	182	855	23.5	705
26.0	780	32	243	1141	32.0	960

#### 45 kcal/fl oz

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
8.0	240	13	98.8	463	10.4	315
11.0	330	18	137	642	14.4	430
13.0	390	22	167	784	17.1	515
19.0	570	31	236	1105	24.8	745
24.0	720	40	304	1426	31.5	945

## Neocate Junior, Unflavored (without prebiotics)

Visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com) for printable dilution charts and the Neocate and Pepticate Mixing Tool.



### Mixing Charts

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
8.0	240	5	36.5	175	8.8	265
11.0	330	7	51.1	245	12.2	365
16.0	480	10	73.0	350	17.7	530
22.0	660	14	102	490	24.4	730
30.0	900	19	139	664	33.2	995

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
6.5	195	5	36.5	175	7.3	220
9.0	270	7	51.1	245	10.2	305
14.0	420	11	80.3	385	15.8	475
22.0	660	17	124	594	24.9	745
28.0	840	22	161	769	31.7	950

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
4.0	120	4	29.2	140	4.7	140
7.0	210	7	51.1	245	8.2	245
10.0	300	10	73.0	350	11.7	350
21.0	630	21	153	734	24.5	735
28.0	840	28	204	979	32.7	980

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
3.5	105	5	36.5	175	4.3	130
7.0	210	10	73.0	350	8.7	260
12.0	360	17	124.1	594	14.9	445
19.0	570	27	197.1	944	23.5	705
26.0	780	37	270	1294	32.2	965

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
7	210	5	36.5	175	7.8	235
10.0	300	7	51.1	245	11.2	335
14.0	420	10	73.0	350	15.7	470
21.0	630	15	110	525	23.5	705
30.0	900	21	153	734	33.5	1005

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
4.5	135	4	29.2	140	5.2	155
10.0	300	9	65.7	315	11.5	345
15.5	465	14	102.2	490	17.9	535
20.0	600	18	131	629	23.0	690
30.0	900	27	197	944	34.5	1035

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
4.0	120	5	36.5	175	4.8	145
6.5	195	8	58.4	280	7.8	235
10.5	315	13	94.9	455	12.7	380
20.0	600	25	183	874	24.2	725
26.5	795	33	241	1154	32.0	960

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.5	165	9	65.7	315	7.0	210
8.5	255	14	102.2	490	10.9	325
10	330	18	131.4	629	14.0	420
20.0	600	33	240.9	1154	25.5	765
25.0	750	41	299	1434	31.9	955

## Neocate Junior, Vanilla & Strawberry

Visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com) for printable dilution charts and the Neocate and Pepticate Mixing Tool.



### Mixing Charts

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
11.0	330	7	51.1	239	12.2	365
14.0	420	9	65.7	307	15.5	465
17.0	510	11	80.3	376	18.9	565
20.0	600	13	94.9	444	22.2	665
30	900	20	146	683	33	1000

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.0	150.0	4	29.2	137	5.7	170
7.5	225	6	43.8	205	8.5	255
15.0	450	12	87.6	410	17.0	510
20.0	600	16	117	547	22.7	680
28.0	840	22	161	752	31.7	950

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
4.0	120	4	29.2	137	4.7	140
7.0	210	7	51.1	239	8.2	245
10.0	300	10	73.0	342	11.7	350
21.0	630	21	153	717	24.6	735
28.0	840	29	212	999	32.9	990

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.0	150	7	51.1	239	6.2	185
7.0	210	10	73.0	342	8.7	260
12.5	375	18	131	615	15.6	465
21.0	630	31	226.3	1059	26.3	790
26.0	780	38	277.4	1298.2	32.5	975

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.5	165	4	29.2	137	6.2	185
8.5	255	6	43.8	205	9.5	285
14.0	420	10	73.0	342	15.7	470
21.0	630	15	110	512	23.6	705
29.0	870	21	153	717	32.6	975

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.5	165	5	36.5	171	6.4	190
10.0	300	9	65.7	307	11.5	345
15.5	465	14	102	478	17.9	535
21.0	630	19	139	649	24.2	725
30.0	900	27	197	922	34.6	1040

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.5	165	7	51.1	239	6.7	200
6.5	195	8	58.4	273	7.9	235
11.0	330	14	102	478	13.4	400
21.0	630	27	197	922	25.6	770
28.0	840	36	263	1230	34.1	1025

Water Volume*		Neocate <sup>†</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
6.0	180	10	73.0	342	7.7	230
9.0	270	15	109.5	512	11.6	345
17.0	510	29	212	991	21.9	660
20.0	600	34	248	1162	25.8	775
25.0	750	42	307	1435	32.2	965

\*This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.  
<sup>†</sup>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 34.2 kcal. 1 gram provides 4.68 kcal and displaces 0.70 mL water.

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

## Neocate Junior, Chocolate

Visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com) for printable dilution charts and the Neocate and Pepticate Mixing Tool.



### Mixing Charts

20 kcal/fl oz						
Water Volume*		Neocate <sup>1</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
11.0	330	7	52.5	242	12.2	365
14.0	420	9	67.5	311	15.6	465
17.0	510	11	82.5	380	18.9	570
20.0	600	13	97.5	449	22.3	670
29.0	870	19	143	656	32.3	970

24 kcal/fl oz						
Water Volume*		Neocate <sup>1</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.0	150	4	30.0	138	5.7	170
7.5	225	6	45.0	207	8.6	255
15.0	450	12	90.0	414	17.1	515
20.0	600	16	120	552	22.8	685
28.0	840	22	165	759	31.9	955

1 kcal/mL (Standard Mixing)						
Water Volume*		Neocate <sup>1</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
4.0	120	4	30.0	137	4.7	140
7.0	210	7	52.5	240	8.3	245
10.0	300	10	75.0	343	11.8	355
21.0	630	21	158	720	24.9	740
29.0	870	29	218	994	34.1	1020

40 kcal/fl oz						
Water Volume*		Neocate <sup>1</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.5	165	8	60.0	274	6.9	205
7.5	225	11	82.5	377	9.4	285
13.0	390	19	143	651	16.3	490
20.0	600	29	218	994	25.1	750
26.0	780	38	285	1302	32.7	980

22 kcal/fl oz						
Water Volume*		Neocate <sup>1</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.5	165	4	30.0	138	6.2	185
8.5	255	6	45.0	207	9.6	285
14.0	420	10	75.0	345	15.8	475
21.0	630	15	113	518	23.6	710
29.0	870	21	158	725	32.7	980

27 kcal/fl oz						
Water Volume*		Neocate <sup>1</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.5	165	5	37.5	173	6.4	190
10.0	300	9	67.5	311	11.6	345
15.5	465	14	105	483	18.0	540
21.0	630	19	143	656	24.3	730
30.0	900	27	203	925	34.7	1040

36 kcal/fl oz						
Water Volume*		Neocate <sup>1</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
5.5	165	7	52.5	240	6.7	200
7.0	210	9	67.5	308	8.6	255
11.0	330	14	105	480	13.5	405
21.0	630	27	203	925	25.7	770
28.0	840	36	270	1234	34.3	1030







45 kcal/fl oz						
Water Volume*		Neocate <sup>1</sup>			Final Volume*	
fl oz	mL	scoops	grams	kcal	fl oz	mL
6.5	195	11	82.5	377	8.4	255
9.5	285	16	120	548	12.3	370
16.0	480	27	203	925	20.7	620
20.0	600	34	255	1165	26.0	780
25.0	750	43	323	1474	32.5	975

## Pepticate and Neocate Product Samples

This chart represents samples available through your Nutricia Territory Manager.

[www.pepticate.com/hcpsamples](http://www.pepticate.com/hcpsamples)

[www.neocate.com/shop/request-samples-hcp.aspx](http://www.neocate.com/shop/request-samples-hcp.aspx)

Pepticate™	Neocate® Syneo® Infant	Neocate® Infant	Neocate® Spoon	Neocate® Syneo® Junior	Neocate® Junior	Neocate® Splash Unflavored	Neocate® Splash Junior (All Flavors)
<b>Cans</b> (375 g)	<b>Cans</b> (400 g)	<b>Cans</b> (400 g)	<b>Sample Packets</b> (15 x 37 g)	<b>Cans</b> (400 g)	<b>Cans</b> (400 g) OR Flavor Trial Kit - An assortment of the Neocate Junior flavors (Each 8 fl oz, prepared)	<b>Sample Kit -</b> 3 cartons (3 x 8 fl oz)	<b>Sample Kit -</b> An assortment of the flavored Neocate Splash Junior formulas (4 x 8 fl oz)
							

All samples include nutrition information, ingredients, and preparation and storage instructions.

\*This chart assumes 1 fl oz = 30 mL. Water volumes are exact, but final volume of prepared formula may vary slightly.  
<sup>1</sup>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 34.3 kcal. 1 gram provides 4.57 kcal and displaces 0.70 mL water.

## Update on Monitoring Micronutrients

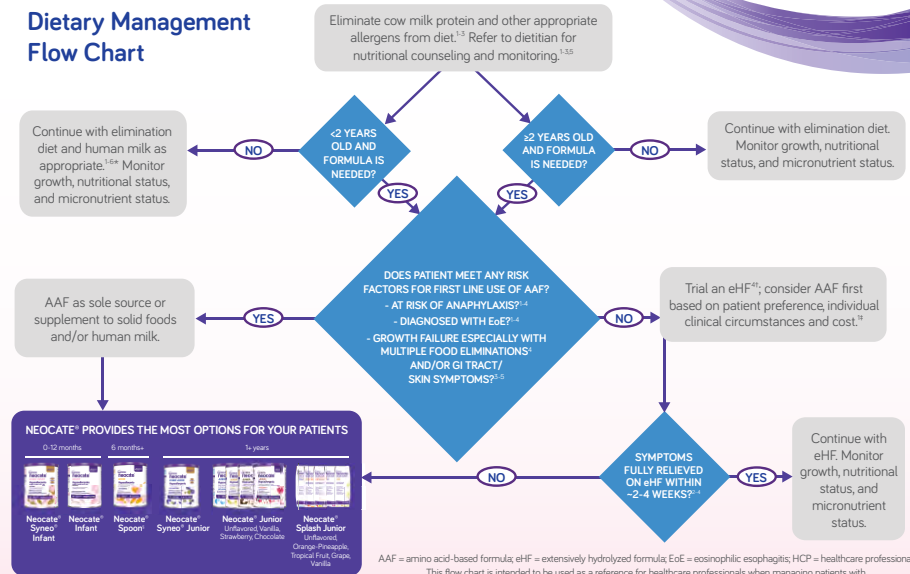
Serum levels of micronutrients, particularly phosphorus, should be routinely monitored by clinicians when Neocate is used as a primary or sole source of nutrition for patients with complex systemic disease involving multiple diagnoses and intestinal disease,\* especially in combination with tube feeding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

## COW MILK ALLERGY/MULTIPLE FOOD ALLERGIES

### Dietary Management Flow Chart



Individual needs as directed by HCP.  
Monitor growth, nutritional status, and micronutrient status.

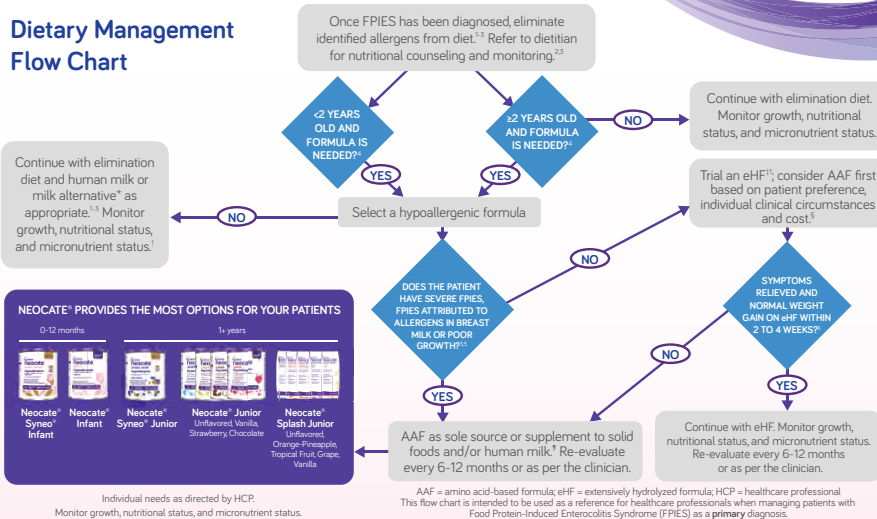
<sup>1</sup>Neocate Spoon is a hypoallergenic semi-solid food - not suitable as sole source of nutrition.

References: 1. Focchi A, et al. 2010;21 Suppl 211-125. 2. Koletzko S, et al. J Pediatr Gastroenterol Nutr. 2012;55:221-9. 3. Venier C, et al. Clin Transl Allergy. 2013;3:23. 4. Meyer et al. J Allergy Clin Immunol Pract. 2018;6:383-99. 5. Ludman S, et al. BMJ. 2013;347:f5424. 6. Vanderglas Y, et al. Arch Dis Child. 2007;92:902-8. 7. Hill DJ, et al. Clin Exp Allergy. 2007;37:808-22.

# FOOD PROTEIN-INDUCED ENTEROCOLITIS SYNDROME (FPIES)



## Dietary Management Flow Chart



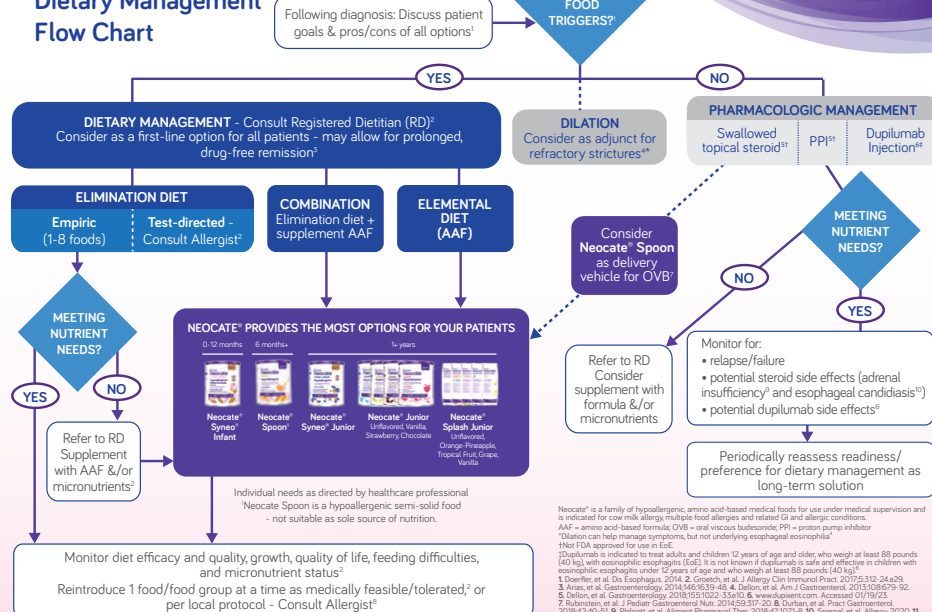
Nutricia North America supports the use of human milk wherever possible. Neocate® is a family of hypoallergenic, amino acid-based medical foods for use under medical supervision and is indicated for cow milk allergy, multiple food allergies and related GI and allergic conditions. For 1-2 year old patients, the milk alternative should be food allergy appropriate and nutritionally equivalent to whole cow's milk with adequate calcium, protein, fat and total calories. If the patient is exclusively formula or breastfed at 12 months and shows sign of feeding difficulty, refer to a feeding specialist to assess motor skill development. Other options may exist for some patients. For children with soy-induced FPIES, cow milk formula can be recommended for patients without cow milk allergy. For children with cow milk-induced FPIES (CM-induced FPIES), soy formula can be recommended for patients without soy allergy and > 6 months of age. However, cautious introduction is recommended because of the potential for co-reactivity between patients with soy-induced FPIES and those with CM-induced FPIES.<sup>12</sup> In settings where the cost of an AAF is lower, the use of an AAF may be equally reasonable.<sup>4</sup> The transition period to a hypoallergenic formula will vary among patients and could take as long as two weeks. Once fully transitioned, FPIES symptoms should resolve within 10-14 days.<sup>2,5</sup> If symptoms are not resolved with AAF or eHF, consider work up of other conditions, e.g. disaccharidase deficiency. References: 1. Agwemang, et al. Clin Rev Allergy Immunol. 2019; 2. Nowak-Wegzyn, et al. J Allergy Clin Immunol. 2017;139:1111-26.e4. 3. Venter, et al. Curr Opin Allergy Clin Immunol. 2014; 4. Flocchi, et al. Pediatr Allergy Immunol. 2010;21 Suppl 211-125. 5. Venter, et al. Clin Transl Allergy. 2017;7:26.

To download the PDF of this flow chart, please visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com)

# EOSINOPHILIC ESOPHAGITIS



## Dietary Management Flow Chart

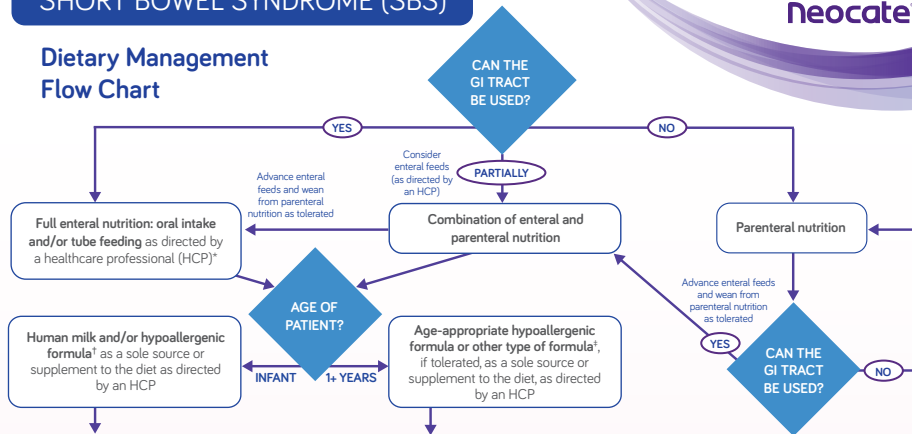


Neocate® is a family of hypoallergenic, amino acid-based medical foods for use under medical supervision and is indicated for cow milk allergy, multiple food allergies and related GI and allergic conditions. AAF = amino acid-based formula; OVB = oral viscous budesonide; PPI = proton pump inhibitor. <sup>†</sup>Dilation can help manage symptoms, but not underlying esophageal eosinophilia. <sup>‡</sup>Not FDA approved for use in EoE. <sup>1</sup>Doerflinger, et al. Dis Esophagus. 2014; 2. Groetch, et al. J Allergy Clin Immunol Pract. 2017;5:312-24.e29. <sup>3</sup>Anas, et al. Gastroenterology. 2014;146:639-48. <sup>4</sup>DeLion, et al. Am J Gastroenterol. 2013;108:79-92. <sup>5</sup>DeLion, et al. Gastroenterology. 2018;155:1022-33.e10. <sup>6</sup>www.eoent.com. Accessed 01/19/25. <sup>7</sup>Rubenstein, et al. J Pediatr Gastroenterol Nutr. 2014;59:317-20. <sup>8</sup>Durban, et al. Pract Gastroenterol. 2018;42:40-51. <sup>9</sup>Philpott, et al. Aliment Pharmacol Ther. 2018;47:1071-8. <sup>10</sup>Spergel, et al. Allergy. 2020. <sup>11</sup>Furuta, et al. Gastroenterology. 2007;133:1542-53. <sup>12</sup>DeLion, et al. Clin Gastroenterol Hepatol. 2014;12:589-96. <sup>13</sup>Mukkada, et al. Pediatrics. 2010;126:e672-7. <sup>14</sup>Lucendo. Curr Gastroenterol Rep. 2015;17:464.

To download the PDF of this flow chart, please visit [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com)

# SHORT BOWEL SYNDROME (SBS)

## Dietary Management Flow Chart



**NEOCATE® OFFERS THE MOST OPTIONS FOR YOUR PATIENTS**

0-12 months	6 months+	1+ years	
<b>Neocate® Infant</b>	<b>Neocate® Spoon®</b>	<b>Neocate® Junior</b> Unflavored, Vanilla, Strawberry, Chocolate	<b>Neocate® Splash Junior</b> Unflavored, Orange-Pineapple, Tropical Fruit, Grape, Vanilla

\*Age appropriate complementary food intake, if the child is developmentally ready for oral intake, as directed by an HCP. Oral intake is important to help prevent oral aversion.

†Hypoallergenic formula includes AAF (Amino Acid-Based Formula) and eHF (Extensively Hydrolyzed Formula)

‡Intact protein or peptide formula

Developed in consultation with leading Pediatric Gastroenterologists in the USA.

**References:** 1. Andorsky et al. J Pediatr. 2001; 139(1):27-33. 2. Bines et al. J Pediatr Gastroenterol Nutr. 1998;26(2):123-8. 3. De Greef E et al. J Nutr Metab. 2010;2010. pii: 297575. doi:10.1155/2010/297575. 4. Nucci et al. Nutr Clin Pract. 2018; 33(4):528-538. 5. Capriati et al. Expert Rev Gastroenterol Hepatol. 2017;11(8):741-748. 6. Duggan et al. N Engl J Med. 2017; 377(7):666-675. 7. Stamm et al, https://www.uptodate.com/contents/management-of-short-bowel-syndrome-in-children. Accessed 10/04/2019.



## CHALLENGED GROWTH



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



## Fortini® Infant

The first and only ready-to-feed, 30 kcal/fl oz energy & nutrient-dense formula specially calibrated for term infants and young children with or at risk of growth failure to support catch-up growth.

### Main Features:

- Nutritionally complete
- 30 kcal/fl oz (1 kcal/mL)
- Sterile liquid in 4 fl oz (118 mL) cartons for oral and tube feeding
- 2.6 g protein per 100 kcal: casein 40%, whey 60%
- Supports catch-up growth<sup>1,2</sup>
- Well tolerated in infants with growth failure<sup>1,2</sup>
- Prebiotic fiber to help support gut health<sup>3,4</sup>
- Osmolality: 360 mOsm/kg H<sub>2</sub>O
- Free water: 85%
- Potential renal solute load: 223 mOsm/L
- Energy distribution:
 

Protein	10.3%
(In expert-recommended range for catch-up growth <sup>5</sup> )	
Carbohydrate	41.6%
Fat (MCT 24%/ LCT 76%)	48.1%

Backed by 8 clinical studies, 25+ years of trusted use, and available in over 30 countries



Visit [Fortini.com](http://Fortini.com)  
to learn more

### Indications:

For term infants or young children from 0 to 18 months of age or up to 19.8 lbs (9 kg) with or at risk of growth failure, increased energy requirements, fluid restrictions, and/or malnutrition due to conditions such as:

- Congenital heart disease
- Chronic lung disease
- Respiratory syncytial virus
- Neurological syndrome or neuro-disabilities
- Cystic fibrosis
- Non-organic failure to thrive

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

### Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Carton
161212	49735011212	B4160	30 x 4 fl oz (30 x 118 mL)	118

WIC: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

Nutrients	Per 100 kcal (100 mL)	Per Carton (4 fl oz/118 mL)	Minerals	Per 100 kcal (100 mL)	Per Carton (4 fl oz/118 mL)
Calories	100	118	Calcium, mg (mmol) [mEq]	100 (2.5) [5.0]	118 (2.9) [5.9]
Protein, g	2.6	3.0	Phosphorus, mg (mmol)	50.0 (1.6)	59.1 (1.9)
Fat, g	5.4	6.3	Magnesium, mg (mmol) [mEq]	10.7 (0.44) [0.89]	12.7 (0.52) [1.0]
Linoleic Acid, mg	790	934	Iron, mg	1.6	1.9
α-Linolenic Acid, mg	141	167	Zinc, mg	0.70	0.83
DHA, mg	17.8	21.1	Manganese, mcg	16.0	18.9
ARA, mg	17.8	21.1	Copper, mcg	65.0	76.9
Carbohydrate, g	10.1	12.0	Iodine, mcg	20.1	23.8
Soluble Fiber, g	0.57	0.67	Molybdenum, mcg	<8.0	<9.5
Water, g	85	100	Chromium, mcg	<8.0	<9.5
<b>Vitamins</b>			Selenium, mcg	2.9	3.4
Vitamin A, IU (mcg RE)	253 (76.0)	299 (89.7)	Sodium, mg (mmol, mEq)	37.0 (1.6)	43.8 (1.9)
Vitamin D, IU (mcg)	76.0 (1.9)	89.9 (2.2)	Potassium, mg (mmol, mEq)	95.0 (2.4)	112 (2.9)
Vitamin E, IU (mg α-TE)	3.1 (2.1)	3.7 (2.5)	Chloride, mg (mmol, mEq)	62.0 (1.7)	73.3 (2.1)
Vitamin K, mcg	8.5	10.1			
Thiamine, mcg	150	177			
Riboflavin, mcg	200	237			
Vitamin B <sub>6</sub> , mcg	110	130			
Vitamin B <sub>12</sub> , mcg	0.30	0.35			
Niacin, mcg	530	630			
Folic acid, mcg	16.0	18.9			
Pantothenic acid, mcg	800	946			
Biotin, mcg	4.0	4.7			
Vitamin C, mg	14.0	16.6			
Choline, mg	23.0	27.2			
Inositol, mg	25.0	29.6			

### Ingredients:

Water, Nonfat Milk, Maltodextrin, Refined Vegetable Oils (Canola, Modified Coconut, High Oleic Sunflower, Sunflower, and Corn Oils), Lactose, and less than 2% of each of the following: Galacto-oligosaccharides (GOS), Whey Protein, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Anhydrous Milk Fat, Citric Acid Esters of Mono- and Diglycerides (CITREM), Calcium Citrate, Fructooligosaccharides (FOS), Potassium Citrate, Calcium Phosphate, Sodium Chloride, Citric Acid, C. cohnii Oil\*, Inositol, M. alpina Oil\*\*, Sodium L-Ascorbate, Choline Chloride, Magnesium Carbonate, Calcium Hydroxide, Potassium Hydroxide, Ferrous Lactate, Taurine, Dipotassium Hydrogen Phosphate, Nucleotides (Cytidine 5'-Monophosphate, Adenosine 5'-Monophosphate, Disodium Uridine 5'-Monophosphate, Disodium Inosine 5'-Monophosphate, Disodium Guanosine 5'-Monophosphate), DL-Alpha Tocopheryl Acetate, L-Carnitine, Zinc Sulfate, Calcium D-Pantothenate, Niacin, Soy Lecithin, Copper Gluconate, Thiamine Hydrochloride, Potassium Iodide, Riboflavin, Pyridoxine Hydrochloride, Vitamin A Acetate, Manganese Sulfate, Folic Acid, Phylloquinone, D-Biotin, Sodium Selenite, Cholecalciferol, Cyanocobalamin.

**Contains:** Milk, Soy

\*A source of Docosahexaenoic Acid (DHA)

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

Access an easy, online DRI calculator at [bit.ly/Fortini\\_DRI](http://bit.ly/Fortini_DRI)



## DIRECTIONS FOR PREPARATION AND USE:

**Use only under medical supervision.** As with all infant formulas, refer to the hospital feeding protocol for inpatient care. For oral and tube feeding only; not for parenteral use. For term infants or young children up to 18 months of age or up to 19.8 lbs (9 kg) with or at risk of growth failure, increased energy requirements, fluid restrictions, and/or malnutrition. Clinicians should regularly monitor for adequate nutrient and fluid status by reviewing nutrient intake and needs, anthropometry, tolerance, and micronutrient status. Not for use with pre-term infants.

**Storage before opening:** Store in a cool, dry place. Do not freeze. Avoid excessive heat and prolonged exposure to light.

### DIRECTIONS FOR PREPARATION:

1. Wash hands thoroughly and clean preparation area.
2. Sterilize feeding bottle\* and ensure top of carton is clean.
3. Shake well before use.
4. The formula should be decanted into a sterilized formula bottle.\*

If the infant is being tube fed, the formula can be decanted into a sterilized feeding bag.

5. Cap bottle. Feed immediately. Discard unfinished feeds after use.

\*Nutricia directs caregivers to ask the baby's healthcare team if they need to boil (sterilize) bottles and nipples before use.

Do not boil or use a microwave to warm formula; serious burns may result. Formula must not be re-warmed during feeding.

**Storage after opening:** Opened individual cartons can be kept in the fridge for maximum 24 hours.

**Tube feeding:** 4-hour hang time based on using a single-use sterile bag every feeding and not warming formula for tube feeding.

## WHAT TO EXPECT:

- Fortini Infant can be started at full strength from day 1 for most infants, and is as well tolerated as standard (20 kcal/fl oz) infant formula.
- Infants less than 12 weeks of age may benefit from a graded introduction to Fortini Infant over three days. See following pages.
- You might notice some changes in stool frequency and consistency and a slight increase in gas as babies adjust to the prebiotic fiber in Fortini Infant. That's normal, and should only last a few days.

## TO SUPPLEMENT:

- **Nutricia supports the use of human milk wherever possible:** Fortini Infant can supplement human milk to add calories and protein for catch-up growth in minimal formula volume to preserve gastric volume for human milk. See following pages.

Number of cartons	Volume	Energy	Free water volume
1	118 mL 4 fl oz	118 kcal	100 mL 3.4 fl oz
2	236 mL 8 fl oz	236 kcal	201 mL 6.8 fl oz
3	354 mL 12 fl oz	354 kcal	301 mL 10.2 fl oz
4	472 mL 16 fl oz	472 kcal	401 mL 13.6 fl oz
5	590 mL 20 fl oz	590 kcal	502 mL 17.0 fl oz
6	708 mL 24 fl oz	708 kcal	602 mL 20.4 fl oz
7	826 mL 28 fl oz	826 kcal	702 mL 23.7 fl oz
8	944 mL 32 fl oz	944 kcal	802 mL 27.1 fl oz
9	1062 mL 36 fl oz	1062 kcal	903 mL 30.5 fl oz
10	1180 mL 40 fl oz	1180 kcal	1003 mL 33.9 fl oz

### Volumes of Fortini Infant that provide ≥100% of DRIs:

0-6 months	590 mL (5 cartons)*
7-12 months	750 mL (6½ cartons)†
12-18 months	880 mL (7½ cartons)‡

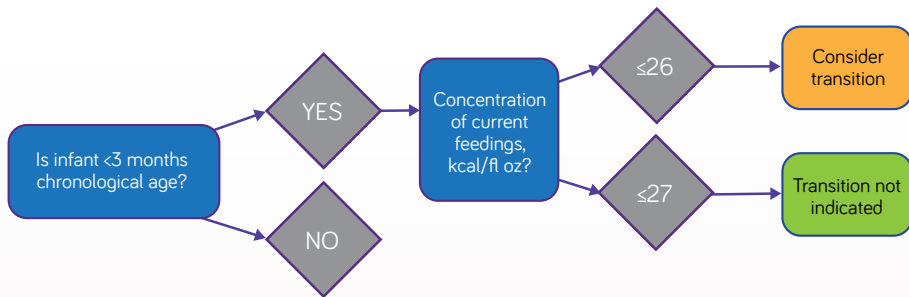
**RDAs should not guide energy or protein goals in critically ill infants.**

\*Provides ≥100% Adequate Intake (AI) for all nutrients.

†Provides ≥100% AI except carbohydrate 80%, manganese 20%, sodium 75%, potassium 82%, chloride 81%.

‡Provides ≥100% 1-3-year DRI except carbohydrate 69%§, fiber 37%, niacin 78%§, phosphorus 96%§, manganese 12%, sodium 41%, potassium 42%, chloride 36%. §=Recommended Dietary Allowance, otherwise AI.

### WHEN TO CONSIDER A GRADED TRANSITION TO FORTINI INFANT:



### CONSIDER ONE OF THESE METHODS TO TRANSITION TO FORTINI INFANT, WHEN INDICATED:

		Method 1: Fade by replacing feedings	Method 2: Fade by blending
Day 1	Original formula or human milk	3 feedings	75%
	Fortini Infant	Remainder	25%
Day 2	Original formula or human milk	2 feedings	50%
	Fortini Infant	Remainder	50%
Day 3	Original formula or human milk	1 feeding	25%
	Fortini Infant	Remainder	75%
Day 4	All feedings 100% Fortini Infant		

**Method 2:  
Gradually mix in the bottle**  
Start by mixing a small amount of Fortini Infant with original formula or human milk in a clean bottle.

- If the original formula is a powder, mix it separately following the directions on the can, before combining with Fortini Infant.
- If the baby is taking human milk, give the expressed milk in a bottle (be sure the baby is comfortable with a bottle first).
- Over a period of days, gradually increase the ratio of Fortini Infant to the original formula or expressed human milk in the bottle.

Visit Fortini.com for printable versions of this and other resources.

### RATIOS OF HUMAN MILK TO SUPPLEMENTAL FORTINI INFANT, IN FEEDINGS OR FLUID OUNCES:

Ratio of feedings		Characteristics, if blended	Volume Human Milk	Volume Fortini Infant		Approximate Final Volume and Calories	
Human milk	Fortini Infant	<b>22 kcal/fl oz</b> 0.73 kcal/mL Protein +/-0.4 g/100 mL*	4 fl oz	1 fl oz	-	5 fl oz (148 mL)	110 kcal
			8 fl oz	2 fl oz	½ carton	10 fl oz (295 mL)	219 kcal
			16 fl oz	4 fl oz	1 carton	20 fl oz (591 mL)	438 kcal
Human milk	Fortini Infant	<b>24 kcal/fl oz</b> 0.80 kcal/mL Protein +/-0.7 g/100 mL*	3 fl oz	2 fl oz	½ carton	5 fl oz (148 mL)	119 kcal
			6 fl oz	4 fl oz	1 carton	10 fl oz (295 mL)	238 kcal
			12 fl oz	8 fl oz	2 cartons	20 fl oz (592 mL)	477 kcal
Human milk	Fortini Infant	<b>26 kcal/fl oz</b> 0.87 kcal/mL Protein +/-1.0 g/100 mL*	2.5 fl oz	4 fl oz	1 carton	6.5 fl oz (192 mL)	168 kcal
			5 fl oz	8 fl oz	2 cartons	13 fl oz (385 mL)	337 kcal
			8 fl oz	12 fl oz	3 cartons	20 fl oz (591 mL)	515 kcal
Human milk	Fortini Infant	<b>27 kcal/fl oz</b> 0.90 kcal/mL Protein +/-1.1 g/100 mL*	2.5 fl oz	6 fl oz	1 ½ cartons	8.5 fl oz (251 mL)	230 kcal
			3.5 fl oz	8 fl oz	2 cartons	11.5 fl oz (340 mL)	307 kcal
			5 fl oz	12 fl oz	3 cartons	17 fl oz (503 mL)	455 kcal
Human milk	Fortini Infant	<b>28 kcal/fl oz</b> 0.93 kcal/mL Protein +/-1.3 g/100 mL*	1 fl oz	4 fl oz	1 carton	5 fl oz (148 mL)	138 kcal
			2 fl oz	8 fl oz	2 cartons	10 fl oz (295 mL)	277 kcal
			5 fl oz	20 fl oz	5 cartons	25 fl oz (739 mL)	691 kcal

\*Fortini Infant contains 2.6 g protein/100 mL. Add number shown (“+XX”) to a value for protein content of human milk (\_\_\_ g/100 mL) to estimate increased protein with added Fortini Infant. Assumes protein content in mature human milk of 1.1 g/100 mL.<sup>1</sup>

**Nutricia North America supports the use of human milk wherever possible.**

Visit Fortini.com for printable versions of this and other resources.

<sup>1</sup>World Health Organization; Food and Agriculture Organization of the United Nations; United Nations University. Protein and amino acid requirements in human nutrition: report of a joint FAO/WHO/UNU expert consultation. 2007.





## METABOLICS



Find the most current product information at [NutriciaMetabolics.com](https://www.NutriciaMetabolics.com).  
For more resources and tools, visit [NutriciaLearningCenter.com](https://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 prebiotics.

### Main Features:

- Phenylalanine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- 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 (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H<sub>2</sub>O 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
151618	49735-0116-18	B4162	6 x 400 g (14.1 oz)	1864

**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	466	345	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)	109 (7.3)	81 (5.4)
Saturated, g	7.9	5.9	Vitamin K, mcg	48.5	35.9
Monounsaturated, g	9.4	7.0	Thiamine, mcg	500	370
Polyunsaturated, g	5.3	3.9	Riboflavin, mcg	500	370
DHA, mg	60.0	44.4	Vitamin B <sub>6</sub> , mcg	500	370
ARA, mg	120	88.9	Vitamin B <sub>12</sub> , mcg	13	0.96
Linoleic Acid, mg	3500	2593	Niacin, mcg	2200	1630
Carbohydrate, g	53.7	39.8	Folic Acid, mcg	55.0	40.7
Fiber, g	3.5	2.6	Pantothenic Acid, mcg	2800	2074
GOS, g	3.0	2.2	Biotin, mcg	182	135
FOS, g	0.50	0.37	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	1.40	1.04	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	39.0	28.9
L-Leucine	1.65	1.22	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	1.10	0.81	Selenium, mcg	14.1	10.4
L-Serine	0.72	0.53	Sodium, mg	171	127
L-Threonine	0.81	0.60	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, Soybean, Coconut, and Canola Oils), GalactoOligosaccharides (Milk), L-Arginine-L-Aspartate, L-Leucine, L-Lysine Acetate, L-Tyrosine, L-Glutamine, L-Proline, Tricalcium Phosphate, L-Valine, Citric Acid Esters of Mono and Diglycerides, Glycine, L-Isoleucine, L-Threonine, L-Serine, L-Histidine, L-Alanine, Potassium Chloride, Fructooligosaccharides, Tripotassium Citrate, Sodium Phosphate Dibasic, L-Cystine, L-Tryptophan, M. Alpina Oil\*, Choline Bitartrate, L-Methionine, Magnesium Acetate, Magnesium Aspartate, C. Cohnii Oil\*\*, Sodium Chloride, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, Taurine, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Manganese Sulfate, Folic Acid, Chromium Chloride, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

Contains: Milk, Soybean Oil, Coconut Oil.

\* A source of Arachidonic Acid (ARA)

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

Contains GOS/FOS 0.53 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 of protein equivalent and 12.5 g of fat per 100 g of powder
- Available in Plain and Vanilla flavors
- Osmolality (at 11 kcal/mL): 1340 mOsm/kg H<sub>2</sub>O 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

**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 (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 (210)	300 (75)
Fat, g	12.5	4.5	Vitamin E, IU (mg α-TE)	12.5 (8.4)	4.5 (3.0)
Saturated, g	2.0	0.71	Vitamin K, mcg	14.0	5.0
Monounsaturated, g	8.2	2.9	Thiamine, 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	4.0	Niacin, mg	2.0	0.71
Soluble	8.0	2.9	Folic Acid, mcg	210	75.0
Insoluble	3.2	1.1	Pantothenic Acid, mg	4.2	1.5
<b>Amino Acids, g</b>			Biotin, mcg	112	4.0
L-Alanine	4.76	1.70	Vitamin C, mg	42.0	15.0
L-Arginine	1.74	0.62	Choline, mg	224	80.0
L-Aspartic Acid	0.42	0.15	Inositol, mg	56.0	20.0
L-Cystine	1.90	0.68	<b>Minerals</b>		
L-Glutamine	3.36	1.20	Calcium, mg	980	350
Glycine	4.59	1.64	Phosphorus, mg	641	229
L-Histidine	0.70	0.25	Magnesium, mg	113	40.4
L-Isoleucine	1.40	0.50	Iron, mg	10.0	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	1.20	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	0.95	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:

**Plain:** 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, Citric Acid Esters of Mono- and Diglycerides (CITREM), *C. cohnii* Oil\*, 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, Thiamine 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: Soy, Coconut Oil.

**Vanilla:** 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, Citric Acid Esters of Mono- and Diglycerides (CITREM), *C. cohnii* Oil\*, L-Tryptophan, Tricalcium Citrate, L-Ascorbic Acid, Soy Fiber, M-Inositol, Taurine, Sucralose, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine 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: Soy, Coconut Oil.

\*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
- 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 flavor
- Osmolality (mOsm/kg H<sub>2</sub>O):
 

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
49835 - Unflavored	49735-0183-05	B4157 or B4162	6 x 454 g (1 lb)	1748
49837 - 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 10 g		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories (Orange)	385 (369)	110 (105)	Vitamin A, IU (mcg RE)	1951(586)	557 (167)
Protein Equivalent, g	35	10	Vitamin D <sub>3</sub> , IU (mcg)	292 (73)	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	0.40	Vitamin K, mcg	718	20.5
Monounsaturated, g	7.9	2.3	Thiamine, mg	0.80	0.23
Polyunsaturated, g	2.7	0.77	Riboflavin, mg	0.85	0.24
Linoleic Acid, mg	2064	590	Vitamin B <sub>6</sub> , mg	14	0.40
α-Linolenic Acid, mg	535	153	Vitamin B <sub>12</sub> , mcg	2.7	0.77
Carbohydrate, g (Orange)	33 (29)	9.4 (8.3)	Niacin, mg	5	14
<b>Amino Acids, g</b>			Folic Acid, mcg	430	123
L-Alanine	1.4	0.40	Pantothenic Acid, mg	4.3	1.2
L-Arginine	2.6	0.74	Biotin, mcg	214	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
L-Glutamine	4.3	1.23	Inositol, mg	70	20
Glycine	2.5	0.71	<b>Minerals</b>		
L-Histidine	1.5	0.43	Calcium, mg	1035	296
L-Isoleucine	2.4	0.69	Phosphorus, mg	995	284
L-Leucine	4.0	1.14	Magnesium, mg	268	76.6
L-Lysine	3.1	0.89	Iron, mg	12.9	3.7
L-Methionine	0.64	0.18	Zinc, mg	7.9	2.3
L-Phenylalanine	Nil Added	Nil Added	Manganese, mg	16	0.46
L-Proline	2.8	0.80	Copper, mcg	720	206
L-Serine	1.8	0.51	Iodine, mcg	115	32.9
L-Threonine	1.9	0.54	Molybdenum, mcg	32.4	9.3
L-Tryptophan	0.78	0.22	Chromium, mcg	22.8	6.5
L-Tyrosine	3.5	1.00	Selenium, mcg	50.8	14.5
L-Valine	2.5	0.71	Sodium, mg	490	140
L-Carnitine	0.03	0.01	Potassium, mg	613	175
Taurine	0.12	0.03	Chloride, mg	490	140

### Ingredients:

**Orange:** Corn Syrup Solids, High Oleic Safflower Oil, Canola Oil, L-Lysine, L-Aspartate, L-Glutamine, L-Leucine, L-Tyrosine, Artificial Flavors, Citric Acid, L-Proline, L-Arginine, L-Valine, Glycine, L-Isoleucine, Magnesium Hydrogen Phosphate, L-Threonine, Tricalcium Phosphate, contains 2% or less of the following: Tricalcium Citrate, L-Serine, Disodium Hydrogen Phosphate, L-Histidine, L-Alanine, Guar Gum, Xanthan Gum, Potassium Chloride, Choline Hydrogen Tartrate, L-Cystine, L-Tryptophan, Sugar, L-Methionine, Fractionated Coconut Oil, L-Lysine Acetate, Citric Acid Esters Of Mono- And Diglycerides (CITREM), Tripotassium Citrate, Sucralose, Beet Juice Concentrate (For Color), Beta-Carotene (For Color), Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopherol Acetate, Manganese Sulfate, Niacinamide, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

Contains: Coconut Oil.

**Unflavored:** 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, Tricalcium Citrate, contains 2% or less of the following: Tricalcium Phosphate, 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, Citric Acid Esters Of Mono- And Diglycerides (CITREM), Tripotassium Citrate, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopherol Acetate, Manganese Sulfate, Niacinamide, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

Contains: Coconut Oil.



## PhenylAde® GMP Drink Mix

A powdered medical food, low in phenylalanine, providing protein from glycomacropeptide (GMP) and amino acids with other nutrients for the dietary management of phenylketonuria (PKU) in individuals over 1 year of age.

### Main Features:

- Low in phenylalanine
- Complete with essential vitamins and minerals
- Contains a source of DHA
- 15 grams of soluble fiber per each 10 g PE serving
- Provides 30 g of protein equivalent and approx. 9.1 g of fat per 100 g of powder
- Available in Vanilla and Plain flavors
- Available in pouches and cans
- Osmolality based on dilution of 33.3 g powder to 5 fl oz (150 mL) water:  
Plain: 440 mOsm/kg H<sub>2</sub>O  
Vanilla: 520 mOsm/kg H<sub>2</sub>O

### 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>				
201647 - Vanilla	49735-0168-32	B4157 or B4162	6 x 375 g (13.2 oz)	1324
201648 - Plain	49735-0101-72	B4157 or B4162	6 x 375 g (13.2 oz)	1324

**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 33.3 g of powder (1 scoop/pouch)	
	Per 100 g	
Calories	353	117
Protein Equivalent, g	30.0	10.0
Phenylalanine, mg	54.0	18.0
Fat, g	9.1	3.0
Saturated, g (Plain/Vanilla)	4.1/4.0	14/13
Trans	0	0
Monounsaturated, g	3.2	1.1
Polyunsaturated, g	1.8	0.6
DHA, mg	156	51.9
Carbohydrate, g (Plain/Vanilla)	40.3/40.6	13.4/13.5
Fiber, g	4.5	1.5

#### Amino Acids, g

L-Alanine	1.21	0.40
L-Arginine	1.42	0.47
L-Aspartic acid	1.78	0.59
L-Cystine	0.93	0.31
L-Glutamic acid	4.14	1.38
L-Glycine	2.24	0.75
L-Histidine	1.47	0.49
L-Isoleucine	2.27	0.76
L-Leucine	2.34	0.78
L-Lysine	1.33	0.44
L-Methionine	0.40	0.13
L-Phenylalanine	0.05	0.02
L-Proline	2.32	0.77
L-Serine	1.54	0.51
L-Threonine	3.40	1.13
L-Tryptophan	0.72	0.24
L-Tyrosine	3.69	1.23
L-Valine	1.72	0.57
L-Carnitine	0.04	0.01
Taurine	0.09	0.03

Vitamins	Per 33.3 g of powder (1 scoop/pouch)	
	Per 100 g	
Vitamin A, mcg RAE	667	222
(from Vitamin A Acetate), mcg RAE	500	167
(from Beta-carotene), mcg RAE	167	55.5
Vitamin D <sub>3</sub> , mcg	22.5	7.5
Vitamin E, mg α-TE	15.2	5.1
Vitamin K, mcg	72.0	24.0
Thiamine, mg	1.8	0.60
Riboflavin, mg	1.8	0.60
Vitamin B <sub>6</sub> , mg	1.7	0.56
Vitamin B <sub>12</sub> , mcg	3.6	1.2
Niacin, mg	15.0	5.0
Folic Acid, mcg	36.0	12.0

#### Minerals

Pantothenic Acid, mg	4.8	1.6
Biotin, mcg	36.0	12.0
Vitamin C, mg	72.0	24.0
Choline, mg	300	100
Inositol, mg	60.0	20.0
Calcium, mg	1050	350
Phosphorus, mg	945	315
Magnesium, mg	252	83.9
Iron, mg	13.2	4.4
Zinc, mg	10.2	3.4
Manganese, mg	1.6	0.52
Copper, mcg	1200	400
Iodine, mcg	135	45.0
Molybdenum, mcg	54.0	18.0
Chromium, mcg	36.0	12.0
Selenium, mcg	48.0	16.0
Sodium, mg	512	170
Potassium, mg	1047	349
Chloride, mg	570	190

### Ingredients:

**Plain:** Corn Syrup Solids, Glycomacropeptide (Milk), Refined Vegetable Oils (Medium Chain Triglycerides [Coconut and/or Palm Kernel Oil], High Oleic Sunflower Oil, Canola Oil, Sunflower Oil), L-Tyrosine, Tricalcium Phosphate, Glycine, and less than 2% of each of the following: Soy Fiber, Gum Arabic, Maltodextrin, Microcrystalline Cellulose, Inulin, Corn Starch, Fructooligosaccharides, Ascorbyl Palmitate, Magnesium Phosphate, L-Leucine, L-Histidine, L-Arginine, DHA Powder (Corn Syrup Solids, Schizochytrium sp. Oil\*, Modified Corn Starch, Sodium Ascorbate, Mono- and -Diglycerides), Potassium Chloride, L-Cystine, Choline Bitartrate, L-Tryptophan, Citric Acid Esters of Mono- and Diglycerides, Potassium Citrate, Silicon Dioxide, Sodium Chloride, Ascorbic Acid, Taurine, Inositol, Vitamin E Acetate, Ferrous Sulfate, L-Carnitine, Sunflower Lecithin, Niacinamide, Zinc Sulfate, Vitamin D<sub>3</sub>, Copper Sulfate, Vitamin A Acetate, Calcium D-Pantothenate, Manganese Sulfate, D-Biotin, Beta-Carotene, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Potassium Iodide, Riboflavin, Vitamin K<sub>1</sub>, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate.

Contains: Milk, Soy.

**Vanilla:** Glycomacropeptide (Milk), Corn Syrup Solids, Sugar, Refined Vegetable Oils (Medium Chain Triglycerides [Coconut and/or Palm Kernel Oil], High Oleic Sunflower, Canola, Sunflower), L-Tyrosine, Tricalcium Phosphate, Glycine, Natural and Artificial Flavors, and less than 2% of the following: Fructooligosaccharides, Inulin, Corn Starch, Microcrystalline Cellulose, Gum Arabic, Magnesium Phosphate, L-Leucine, L-Histidine, L-Arginine, DHA Powder (Corn Syrup Solids, Schizochytrium sp. Oil\*, Modified Corn Starch, Sodium Ascorbate, Mono- and Diglycerides), Potassium Chloride, L-Cystine, Maltodextrin, Choline Bitartrate, L-Tryptophan, Citric Acid Esters of Mono- and Diglycerides, Potassium Citrate, Silicon Dioxide, Sodium Chloride, Ascorbyl Palmitate, Ascorbic Acid, Taurine, Inositol, Soy Fiber, Vitamin E Acetate, Ferrous Sulfate, L-Carnitine, Sunflower Lecithin, Niacinamide, Zinc Sulfate, Vitamin D<sub>3</sub>, Copper Sulfate, Vitamin A Acetate, Calcium Pantothenate, Manganese Sulfate, D-Biotin, Beta-Carotene, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Potassium Iodide, Riboflavin, Vitamin K<sub>1</sub>, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate.

Contains: Milk, Soy.

\*A source of docosahexaenoic acid (DHA)

Contains 18 mg of phenylalanine per 10 g protein equivalent.



## PhenylAde® GMP READY

A ready-to-drink medical food, low in phenylalanine providing protein from glycomacropeptide (GMP) and amino acids for the dietary management of phenylketonuria (PKU) in individuals over 1 year of age.

### Main Features:

- Low in phenylalanine
- Complete with essential vitamins and minerals
- Contains a source of DHA & EPA
- No measuring or mixing
- Provides 10 g of protein equivalent and 4 g of fat per 250 mL carton
- Available in Plain (neutral) flavor
- Osmolality (at 0.73 kcal/mL): 460 mOsm/kg H<sub>2</sub>O
- 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 Carton
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
Calories	110
Protein Equivalent, g	10
Phenylalanine, mg	18
Fat, g	4.0
Saturated, g	0.40
Trans, g	0
Monounsaturated, g	2.4
Polyunsaturated, g	1.2
DHA, mg	60.0
EPA, mg	15.0
Carbohydrate, g	8.5
Fiber, g	0.93
Sugars, g	7.5

#### Amino Acids, g

L-Alanine	0.40
L-Arginine	0.49
L-Aspartic acid	0.59
L-Cystine	0.29
L-Glutamic acid	1.3
Glycine	0.07
L-Histidine	0.40
L-Isoleucine	0.72
L-Leucine	1.5
L-Lysine	0.43
L-Methionine	0.13
L-Phenylalanine	0.02
L-Proline	0.79
L-Serine	0.51
L-Threonine	1.1
L-Tryptophan	0.24
L-Tyrosine	1.0
L-Valine	0.87
L-Carnitine	0.01
Taurine	0.03

#### Vitamins

	Per 8.5 fl oz/ 250 mL
Vitamin A, IU (mcg RE)	665 (200)
Vitamin D <sub>3</sub> , IU (mcg)	250 (6.3)
Vitamin E, IU (mg α-TE)	5.0 (3.3)
Vitamin K, mcg	17.5
Thiamine, mg	0.40
Riboflavin, mg	0.40
Vitamin B <sub>6</sub> , mg	0.35
Vitamin B <sub>12</sub> , mcg	0.70
Niacin, mg	3.5
Folic Acid, mcg	50.0
Pantothenic Acid, mg	1.3
Biotin, mcg	7.8
Vitamin C, mg	15.5
Choline, mg	93.8
Inositol, mg	20.3

#### Minerals

Calcium, mg	325
Phosphorus, mg	275
Magnesium, mg	58.5
Iron, mg	3.0
Zinc, mg	2.2
Manganese, mg	0.23
Copper, mcg	250
Iodine, mcg	36.5
Molybdenum, mcg	12.5
Chromium, mcg	7.5
Selenium, mcg	12.5
Sodium, mg	146
Potassium, mg	185
Chloride, mg	100

### Ingredients:

Water, Glycomacropeptide (Milk), Sugar, Refined Vegetable Oils (Canola Oil, High Oleic Sunflower Oil), L-Leucine, Calcium Glycero-phosphate, 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<sup>†</sup>, Taurine, M-Inositol, Sucralose, Ferrous Lactate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Copper Gluconate, Calcium D-Pantothenate, Manganese Sulfate, Thiamine 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.

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

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

Contains 18 mg of phenylalanine per 10 g protein equivalent



## PhenylAde® GMP ULTRA

A powdered medical food, low in phenylalanine, providing protein from glycomacropeptide (GMP) and amino acids with other nutrients for the dietary management of phenylketonuria (PKU) in individuals over 3 years of age.

### Main Features:

- Low in phenylalanine
- A low-volume, lower-calorie option
- Provides 20 g of protein equivalent (PE) per pouch
- Complete with essential vitamins and minerals
- Available in Lemonade, Vanilla, and Plain

### 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 Case
201719 - Vanilla	49735-0101-71	B4162 or B4157	16 x 33.4 g (12 oz)	1696
201718 - Lemonade	49735-0101-70	B4162 or B4157	16 x 33.4 g (12 oz)	1632
199951 - Plain	49735-1010-32	B4162 or B4157	16 x 33.4 g (12 oz)	1712

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 pouch (33.4 g)
Calories Vanilla/Lemonade/Plain	318/306/322	106/102/107
Protein Equivalent, g	60	20
Phenylalanine, mg	108	36
Fat, g Vanilla/Lemonade/Plain	2.2/0.19/2.3	0.72/0.06/0.76
Carbohydrate, g		
Vanilla/Lemonade/Plain	14.7/16.2/15.3	4.9/5.4/5.1
Sugars, g		
Vanilla/Lemonade/Plain	7.8/8.1/6.0	2.6/2.7/2.0
<b>Amino Acids, g</b>		
L-Alanine	2.4	0.80
L-Arginine	2.9	0.96
L-Asparagine	3.6	1.2
L-Cystine	1.8	0.60
L-Glutamic Acid	8.4	2.8
Glycine	0.48	0.16
L-Histidine	2.4	0.80
L-Isoleucine	4.4	1.5
L-Leucine	9.0	3.0
L-Lysine	2.6	0.86
L-Methionine	0.78	0.26
L-Phenylalanine	0.108	0.036
L-Proline	4.8	1.6
L-Serine	3.0	1.0
L-Threonine	6.6	2.2
L-Tryptophan	1.5	0.50
L-Tyrosine	6.0	2.0
L-Valine	5.3	1.8
L-Carnitine	0.08	0.03
Taurine	0.18	0.06

Vitamins	Per 100 g	Per pouch (33.4 g)
Vitamin A, mcg RAE	735	245
(from Vitamin A Acetate), mcg RAE	551	184
(from Beta-carotene), mcg RAE	184	61.3
Vitamin D <sub>3</sub> , mcg	27.0	9.0
Vitamin E, mg α-TE	18.4	6.1
Vitamin K, mcg	86.4	28.9
Thiamine, mg	1.7	0.57
Riboflavin, mg	2.2	0.72
Vitamin B <sub>6</sub> , mg	2.0	0.68
Vitamin B <sub>12</sub> , mcg	4.3	1.4
Niacin, mg	18.0	6.0
Folic Acid, mcg	240	80.2
Dietary Folate Equivalents, mcg	400	134
Pantothenic Acid, mg	6.0	2.0
Biotin, mcg	43.2	14.4
Vitamin C, mg	86.4	28.9
Choline, mg	360	120
Inositol, mg	713	238
<b>Minerals</b>		
Calcium, mg	1318	440
Phosphorus, mg	1210	404
Magnesium, mg	315	105
Iron, mg	16.2	5.4
Zinc, mg	12.6	4.2
Manganese, mg	0.92	0.31
Copper, mcg	1478	494
Iodine, mcg	171	57.1
Molybdenum, mcg	66.6	22.2
Chromium, mcg	46.8	15.6
Selenium, mcg	66.6	22.2
Sodium, mg	1006	336
Potassium, mg	1428	477
Chloride, mg	720	241

### Ingredients:

**Vanilla:** Glycomacropeptide (Milk), L-Leucine, Sugar, L-Tyrosine, Corn Syrup Solids, Tricalcium Phosphate, L-Arginine, Magnesium Hydrogen Phosphate, L-Histidine, Artificial Flavors, Refined Vegetable Oils (Medium Chain Triglycerides [Coconut and/or Palm Kernel Oil], High Oleic Sunflower, Canola, Sunflower), L-Valine, L-Cystine, L-Tryptophan, Maltodextrin, Potassium Chloride, Choline Bitartrate, Potassium Citrate, Sodium Chloride, Silicon Dioxide, Taurine, L-Ascorbic Acid, L-Carnitine, Citric Acid Esters of Mono- and Diglycerides of Fatty Acids, Inositol, Ferrous Sulfate, Sucralose, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Calcium D-Pantothenate, Sunflower Lecithin, Copper Sulfate, Manganese Sulfate, Pyridoxine Hydrochloride, Riboflavin, Thiamine Hydrochloride, Vitamin A Acetate, Beta-Carotene, Ascorbyl Palmitate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Sodium Selenite, Vitamin K<sub>1</sub>, D-Biotin, Cholecalciferol, Vitamin B<sub>12</sub>.  
Contains: Milk

**Lemonade:** Glycomacropeptide (Milk), L-Leucine, Sugar, L-Tyrosine, Tricalcium Phosphate, Citric Acid, L-Arginine, Natural Flavor, Magnesium Hydrogen Phosphate, L-Histidine, L-Valine, L-Cystine, Corn Syrup Solids, L-Tryptophan, Maltodextrin, Potassium Chloride, Choline Bitartrate, Potassium Citrate, Sodium Chloride, Silicon Dioxide, Taurine, L-Ascorbic Acid, Sucralose, L-Carnitine, Inositol, Ferrous Sulfate, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Calcium D-Pantothenate, Copper Sulfate, Manganese Sulfate, Pyridoxine Hydrochloride, Riboflavin, Thiamine Hydrochloride, Vitamin A Acetate, Beta-Carotene, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Sodium Selenite, Vitamin K<sub>1</sub>, D-Biotin, Cholecalciferol, Vitamin B<sub>12</sub>.  
Contains: Milk

**Plain:** Glycomacropeptide (Milk), L-Leucine, L-Tyrosine, Maltodextrin, Sugar, Corn Syrup Solids, L-Arginine, Magnesium Hydrogen Phosphate, L-Histidine, Tricalcium Phosphate, Refined Vegetable Oils (Medium Chain Triglycerides [Coconut and/or Palm Kernel], High Oleic Sunflower, Canola, Sunflower), L-Valine, L-Cystine, L-Tryptophan, Natural and Artificial Flavor, Dicalcium Phosphate, Potassium Chloride, Choline Bitartrate, Calcium Carbonate, Potassium Citrate, Sodium Chloride, Silicon Dioxide, Taurine, L-Ascorbic Acid, L-Carnitine, Citric Acid Esters of Mono- and Diglycerides, Inositol, Ferrous Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Sucralose, Zinc Oxide, Copper Gluconate, Calcium D-Pantothenate, Sunflower Lecithin, Thiamine Hydrochloride, Manganese Sulfate, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Palmitate, Sodium Selenite, Beta-Carotene, Ascorbyl Palmitate, Sodium Molybdate, Potassium Iodide, Chromium Chloride, Folic Acid, Vitamin K<sub>1</sub>, D-Biotin, Cholecalciferol, Cyanocobalamin.  
Contains: Milk

Contains 36 mg of phenylalanine per 20 g protein equivalent



## PhenylAde® GMP Mix-In

A powdered medical food, low in phenylalanine providing protein from glycomacropeptide (GMP) and amino acids for the dietary management of phenylketonuria (PKU) in individuals over 1 year of age.

### Main Features:

- Low in phenylalanine
- A flexible and concentrated source of GMP-based protein
- Provides 80 g of protein equivalent per 100 g of powder
- Mixes easily with water, flavored drinks or other PKU formula
- Available in cans and pouches

### 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/Pouches
<b>CAN</b>				
201649	49735-0101-73	B4155	6 x 200 g (28.2 oz)	666
<b>POUCHES</b>				
201721	49735-0101-74	B4155	20 x 12.5 g (0.44 oz)	840

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 12.4 g of Powder (1 pouch)
Calories	333	42
Protein Equivalent, g	80	10
Phenylalanine, mg	144	18
Fat, g	0	0
Carbohydrate, g	3.2	0.40
<b>Amino Acids, g</b>		
L-Alanine	3.2	0.40
L-Arginine	3.91	0.49
L-Cystine	2.4	0.30
L-Glutamic acid	10.8	1.35
Glycine	5.8	0.74
L-Histidine	4.0	0.50
L-Isoleucine	5.8	0.72
L-Leucine	6.4	0.80
L-Lysine	3.4	0.43
L-Methionine	1.1	0.13
L-Phenylalanine	0.144	0.018
L-Proline	6.1	0.77
L-Serine	4.1	0.51
L-Threonine	9.0	1.13
L-Tryptophan	1.9	0.24
L-Tyrosine	9.9	1.24
L-Valine	4.5	0.57
L-Carnitine	0.08	0.01
Taurine	0.24	0.03

Minerals	Per 100 g	Per 12.4 g of Powder (1 pouch)
Calcium, mg	39	4.9
Phosphorus, mg	320	40
Potassium, mg	1160	145
Sodium, mg	1129	141

### Ingredients:

Glycomacropeptide (Milk), L-Tyrosine, Glycine, L-Leucine, L-Histidine, L-Arginine, Corn Syrup Solids, L-Cystine. Contains 2% or Less Of The Following: L-Tryptophan, Silicon Dioxide, Taurine, L-Carnitine.

Contains: Milk.

Contains 18 mg of phenylalanine per 10 g protein equivalent

**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
- Provides 25 g of protein equivalent and 13 g of fat per 100 g of powder
- Available in Unflavored, Chocolate, Vanilla, Orange Creme, and Strawberry flavors
- Osmolality (at 0.65 kcal/mL):  
 Chocolate: 720 mOsm/kg  $\text{H}_2\text{O}$   
 Vanilla: 715 mOsm/kg  $\text{H}_2\text{O}$   
 Orange Creme: 750 mOsm/kg  $\text{H}_2\text{O}$   
 Strawberry: 650 mOsm/kg  $\text{H}_2\text{O}$   
 Unflavored: 670 mOsm/kg  $\text{H}_2\text{O}$

### 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
200765 - Chocolate	49735-0101-79	B4157 or B4162	6 x 454 g (1 lb)	1739
200766 - Vanilla	49735-0101-83	B4157 or B4162	6 x 454 g (1 lb)	1739
200769 - Orange Creme	49735-0101-80	B4157 or B4162	6 x 454 g (1 lb)	1739
200764 - Strawberry	49735-0101-81	B4157 or B4162	6 x 454 g (1 lb)	1739
200770 - Unflavored	49735-0101-82	B4157 or B4162	6 x 454 g (1 lb)	1739

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 40 g of Powder (1 scoop)		Vitamins	Per 40 g of Powder (1 scoop)	
	Per 100 g			Per 100 g	
Calories	383	153	Vitamin A, mcg RAE	510	204
Protein Equivalent, g	25	10	(from Vitamin A Acetate), mcg RAE	383	153
Fat, g	10.5	4.2	(from Beta-carotene), mcg RAE	128	51
Saturated, g	4.5	1.8	Vitamin D <sub>3</sub> , mcg	15	6
Monounsaturated, g	3.9	1.6	Vitamin E, mg α-TE	12.7	5.1
Polyunsaturated, g	2.1	0.84	Vitamin K, mcg	61	24.4
DHA, mg	160	54	Thiamine, mg	15	0.6
EPA, mg	40	16	Riboflavin, mg	15	0.6
Carbohydrate, g	49.7	19.9	Vitamin B <sub>6</sub> , mg	14	0.56
Fiber, g	3.9	1.5	Vitamin B <sub>12</sub> , mcg	3.0	1.2
<b>Amino Acids, g</b>			Niacin, mg	17	6.8
L-Alanine	2.32	0.93	Folic Acid, mcg	300	120
L-Arginine	1.97	0.79	Pantothenic Acid, mg	4	16
L-Asparagine	3.49	1.40	Biotin, mcg	30	12
L-Cystine	0.34	0.14	Vitamin C, mg	60	24
L-Glutamine	3.89	1.56	Choline, mg	210	84
Glycine	1.52	0.61	Inositol, mg	50	20
L-Histidine	0.63	0.25	<b>Minerals</b>		
L-Isoleucine	1.04	0.42	Calcium, mg	683	273
L-Leucine	2.24	0.90	Phosphorus, mg	792	317
L-Lysine	1.82	0.73	Magnesium, mg	211	84.4
L-Methionine	0.61	0.24	Iron, mg	11	4.4
L-Phenylalanine	Nil Added	Nil Added	Zinc, mg	10	4
L-Proline	1.52	0.61	Manganese, mg	13	0.52
L-Serine	2.24	0.90	Copper, mcg	1000	400
L-Threonine	1.15	0.46	Iodine, mcg	100	40
L-Tryptophan	0.58	0.23	Molybdenum, mcg	45	18
L-Tyrosine	2.69	1.08	Chromium, mcg	30	12
L-Valine	1.67	0.67	Selenium, mcg	40	16
L-Carnitine	0.04	0.01	Sodium, mg	466	186
Taurine	0.08	0.03	Potassium, mg	883	353
			Chloride, mg	476	190

### Ingredients:

**Unflavored:** Corn Syrup Solids, L-Asparagine Monohydrate, L-Glutamine, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), L-Tyrosine, L-Lysine Acetate, Tricalcium Phosphate, High Oleic Sunflower Oil, L-Alanine, L-Leucine, L-Serine, and contains less than 2% of the following: Fructooligosaccharides, Inulin, Corn Starch, Microcrystalline Cellulose, Gum Arabic, Soy Fiber, L-Arginine, Canola Oil, Sunflower Oil, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, L-Threonine, L-Isoleucine, Potassium Chloride, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Schizochytrium sp. Oil<sup>†</sup>, Citric Acid Esters of Mono- and Diglycerides, Magnesium Oxide, L-Cystine, Modified Corn Starch, Silicon Dioxide, Sodium L-Ascorbate, L-Ascorbic Acid, Taurine, Inositol, Ferrous Sulfate, Vitamin E Acetate, L-Carnitine, Sunflower Lecithin, Niacinamide, Ascorbyl Palmitate, Zinc Sulfate, Copper Sulfate, Vitamin K<sub>1</sub>, Vitamin D<sub>3</sub>, Vitamin A Acetate, Calcium D-Pantothenate, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Pyridoxine Hydrochloride, Riboflavin, Thiamine Hydrochloride, Potassium Iodide, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate

**Chocolate:** Corn Syrup Solids, Sugar, L-Asparagine Monohydrate, L-Glutamine, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), L-Tyrosine, L-Lysine Acetate, Tricalcium Phosphate, High Oleic Sunflower Oil, L-Alanine, L-Leucine, L-Serine, Natural and Artificial Flavors, and contains less than 2% of the following: Fructooligosaccharides, Inulin, Corn Starch, Microcrystalline Cellulose, Gum Arabic, Soy Fiber, L-Arginine, Canola Oil, Sunflower Oil, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, L-Threonine, L-Isoleucine, Potassium Chloride, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Schizochytrium sp. Oil<sup>†</sup>, Citric Acid Esters of Mono- and Diglycerides, Magnesium Oxide, L-Cystine, Modified Corn Starch, Silicon Dioxide, Sodium L-Ascorbate, L-Ascorbic Acid, Taurine, Inositol, Ferrous Sulfate, Vitamin E Acetate, L-Carnitine, Sunflower Lecithin, Caramel (For Color), Beet Juice Concentrate (For Color), Niacinamide, Ascorbyl Palmitate, Zinc Sulfate, Copper Sulfate, Vitamin K<sub>1</sub>, Vitamin D<sub>3</sub>, Vitamin A Acetate, Calcium D-Pantothenate, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Pyridoxine Hydrochloride, Riboflavin, Thiamine Hydrochloride, Potassium Iodide, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate.

**Vanilla:** Corn Syrup Solids, Sugar, L-Asparagine Monohydrate, L-Glutamine, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), Natural and Artificial Flavors, L-Tyrosine, L-Lysine Acetate, Tricalcium Phosphate, High Oleic Sunflower Oil, L-Alanine, L-Leucine, L-Serine, and contains less than 2% of the following: Fructooligosaccharides, Inulin, Corn Starch, Microcrystalline Cellulose, Gum Arabic, Soy Fiber, L-Arginine, Canola Oil, Sunflower Oil, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, L-Threonine, L-Isoleucine, Potassium Chloride, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Schizochytrium sp. Oil, Citric Acid Esters of Mono- and Diglycerides, Magnesium Oxide, L-Cystine, Modified Corn Starch, Silicon Dioxide, Sodium L-Ascorbate, L-Ascorbic Acid, Taurine, Inositol, Ferrous Sulfate, Vitamin E Acetate, L-Carnitine, Sunflower Lecithin, Niacinamide, Ascorbyl Palmitate, Zinc Sulfate, Copper Sulfate, Vitamin K<sub>1</sub>, Vitamin D<sub>3</sub>, Vitamin A Acetate, Calcium D-Pantothenate, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Pyridoxine Hydrochloride, Riboflavin, Thiamine Hydrochloride, Potassium Iodide, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate.

For the ingredient lists of the remaining flavors, please see the end of this section.



## PhenylAde® 60 Drink Mix

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

### Main Features:

- Phenylalanine free
- Complete with essential vitamins and minerals
- Only 51 calories per serving
- Provides 60 g of protein equivalent and <1 g of fat per 100 g of powder
- Available in Unflavored and Vanilla flavor
- Osmolality (at 0.49 kcal/mL):  
Unflavored/Vanilla: 1250/1225 mOsm/kg H<sub>2</sub>O based on dilution of 16.7 g powder (1 scoop) to 3 fl oz (90 mL) water

### 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
200758 - Unflavored	49735-0101-77	B4157 or B4162	6 x 454 g (1 lb)	1385
200768 - Vanilla	49735-0101-78	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 16.7 g of Powder (1 scoop)		Vitamins	Per 16.7 g of Powder (1 scoop)	
	Per 100 g			Per 100 g	
Calories	305	51	Vitamin A, mcg RAE	700	117
Protein Equivalent, g	60	10	(from Vitamin A Acetate), mcg RAE	525	875
Fat, g Unflavored/Vanilla	0.88/13	0.15/0.22	(from Beta-carotene), mcg RAE	175	292
Saturated, g Unflavored/Vanilla	0.23/0.63	0.04/0.11	Vitamin D <sub>3</sub> , mcg	13	2.2
Carbohydrate, g Unflavored/Vanilla	14.3/13.3	2.4/2.2	Vitamin E, mg α-TE	15.4	2.6
<b>Amino Acids, g</b>			Vitamin K, mcg	90	15
L-Alanine	5.56	0.93	Thiamine, mg	2.1	0.35
L-Arginine	4.72	0.79	Riboflavin, mg	1.9	0.32
L-Asparagine	8.36	1.39	Vitamin B <sub>6</sub> , mg	2.3	0.38
L-Cystine	0.81	0.14	Vitamin B <sub>12</sub> , mcg	4.2	0.7
L-Glutamine	9.31	1.55	Niacin, mg	25	4.2
Glycine	3.63	0.61	Folic Acid, mcg	700	117
L-Histidine	1.51	0.25	Pantothenic Acid, mg	8.7	1.5
L-Isoleucine	2.49	0.42	Biotin, mcg	53	8.8
L-Leucine	5.37	0.90	Vitamin C, mg	113	18.8
L-Lysine	4.36	0.73	Choline, mg	425	70.8
L-Methionine	1.45	0.24	Inositol, mg	129	21.5
L-Phenylalanine	Nil Added	Nil Added	<b>Minerals</b>		
L-Proline	3.63	0.61	Calcium, mg	1300	217
L-Serine	5.37	0.90	Phosphorus, mg	1194	199
L-Threonine	2.76	0.46	Magnesium, mg	310	51.7
L-Tryptophan	1.38	0.23	Iron, mg	18	3
L-Tyrosine	6.45	1.08	Zinc, mg	12	2
L-Valine	4.01	0.67	Manganese, mg	2.7	0.45
L-Carnitine	0.09	0.02	Copper, mcg	1300	217
Taurine	0.18	0.03	Iodine, mcg	180	30
			Molybdenum, mcg	60	10
			Chromium, mcg	40	6.7
			Selenium, mcg	83	13.8
			Sodium, mg	650	110
			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, L-Proline, Glycine, Corn Syrup Solids, L-Threonine, L-Isoleucine, Magnesium Phosphate, Sodium Citrate, and Less Than 2% of the Following: L-Histidine, L-Methionine, L-Tryptophan, Dipotassium Phosphate, Potassium Chloride, Choline Bitartrate, Soy Lecithin, L-Cystine, Sodium Chloride, Silicon Dioxide, Taurine, Ascorbic Acid, Inositol, L-Carnitine, Ferrous Sulfate, Vitamin E Acetate, Zinc Sulfate, Niacinamide, Sucralose, Calcium D-Pantothenate, Vitamin K, Manganese Sulfate, Vitamin A Acetate, D-Biotin, Vitamin D<sub>3</sub>, Beta-Carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate. Contains: Soy.

**Vanilla:** L-Asparagine Monohydrate, L-Glutamine, Sugar, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, L-Valine, Tricalcium Phosphate, L-Proline, Glycine, L-Threonine, Natural and Artificial Flavors, L-Isoleucine, Magnesium Phosphate, Sodium Citrate, and Less Than 2% of the Following: Corn Syrup Solids, 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, Ferrous Sulfate, Sucralose, Vitamin E Acetate, Zinc Sulfate, Niacinamide, Calcium D-Pantothenate, Vitamin K, Manganese Sulfate, Vitamin A Acetate, D-Biotin, Vitamin D<sub>3</sub>, Beta-Carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate. Contains: Soy.



## PhenylAde® MTE Amino Acid Blend

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 41 calories per serving
- Available in cans and pouches
- Contains added calcium, phosphorus, magnesium, chromium, molybdenum, and selenium
- 100 g of powder provides 78 g of protein equivalent
- Displacement: 0.47 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
<b>CANS</b>				
200771	49735-0101-84	B4155	6 x 454 g (1 lb)	1457

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:

#### MTE Amino Acid Blend

Nutrients	Per 100 g	Per 12.8 g of Powder (1 scoop/pouch)
Calories	321	41
Protein Equivalent, g	78	10
Fat, g	0	0
Carbohydrate, g	0	0
<b>Amino Acids, g</b>		
L-Alanine	723	0.93
L-Arginine	613	0.78
L-Asparagine	10.9	1.40
L-Cystine	105	0.13
L-Glutamine	1210	1.55
Glycine	4.72	0.60
L-Histidine	1.96	0.25
L-Isoleucine	3.24	0.41
L-Leucine	6.98	0.89
L-Lysine	5.66	0.72
L-Methionine	1.89	0.24
L-Phenylalanine	Nil Added	Nil Added
L-Proline	4.72	0.60
L-Serine	6.98	0.89
L-Threonine	3.59	0.46
L-Tryptophan	1.79	0.23
L-Tyrosine	8.38	1.07
L-Valine	5.21	0.67
L-Carnitine	0.11	0.01
Taurine	0.24	0.03
<b>Minerals</b>		
Calcium, mg	570	73
Chloride, mg	<5	<5
Chromium, mcg	23.4	3.0
Magnesium, mg	123	15.8
Molybdenum, mcg	23.4	3.0
Phosphorus, mg	570	73
Sodium, mg	<20	<20
Selenium, mcg	25.8	3.3

### Ingredients:

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

**Note:** Must be combined with adequate fat and an appropriate vitamin & mineral supplement when taken as the sole source of PKU medical food.



## PhenylAde® PheBLOC™ LNAa

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

### Main Features:

- Provides full compliment of essential amino acids (without phenylalanine)
- Simplifies PKU diet management
- An option for late-diagnosed or those who have never been on-diet
- Available in powder

### 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>POUCHES</b>				
123567	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.

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

### Nutrition Information:

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:

**Powder:** L-Tyrosine, Maltodextrin, L-Tryptophan, L-Methionine, L-Arginine, L-Threonine, L-Valine, L-Isoleucine, L-Histidine, L-Leucine, L-Lysine Monohydrochloride.

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



## PKU 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
- Provides 40 g of protein equivalent per 100 g of powder
- Available in Unflavored and Orange flavor
- Contains <1g of fat per 10 g PE thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg H<sub>2</sub>O):
 

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
175748 - Orange	49735-0183-24	B4162 or B4157	6 x 454 g (1 lb)	1385
175747 - Unflavored	49735-0183-23	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 10 g		Vitamins	Per 10 g	
	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	<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	20.5
<b>Amino Acids, g</b>			Thiamine, mg	0.91	0.23
L-Alanine	16	0.40	Riboflavin, mg	0.97	0.24
L-Arginine	3.0	0.75	Vitamin B <sub>9</sub> , mg	1.6	0.40
L-Aspartic Acid	2.8	0.70	Vitamin B <sub>12</sub> , mcg	3.1	0.78
L-Cystine	1.1	0.28	Niacin, mg	5.7	1.4
L-Glutamine	4.9	1.23	Folic Acid, mcg	491	123
Glycine	2.8	0.70	Pantothenic Acid, mg	4.9	1.2
L-Histidine	1.7	0.43	Biotin, mcg	245	6.1
L-Isoleucine	2.7	0.68	Vitamin C, mg	62	15.5
L-Leucine	4.6	1.15	Choline, mg	430	108
L-Lysine	3.5	0.88	Inositol, mg	80	20
L-Methionine	0.73	0.18	<b>Minerals</b>		
L-Phenylalanine	Nil Added	Nil Added	Calcium, mg	1183	296
L-Proline	3.2	0.80	Phosphorus, mg	1137	284
L-Serine	2.0	0.50	Magnesium, mg	306	76.5
L-Threonine	2.2	0.55	Iron, mg	14.7	3.7
L-Tryptophan	0.89	0.22	Zinc, mg	9.0	2.3
L-Tyrosine	4.0	1.00	Manganese, mg	1.8	0.45
L-Valine	2.9	0.73	Copper, mcg	820	205
L-Carnitine	0.04	0.01	Iodine, mcg	131	32.8
Taurine	0.14	0.04	Molybdenum, mcg	37	9.3
			Chromium, mcg	26	6.5
			Selenium, mcg	58	14.5
			Sodium, mg	560	140
			Potassium, mg	700	175
			Chloride, mg	560	140

### Ingredients:

**Orange:** Sugar, L-Arginine L-Aspartate, L-Lysine Acetate, L-Glutamine, L-Leucine, L-Tyrosine, Calcium Glycerophosphate, L-Proline, Citric Acid, L-Valine, Glycine, L-Isoleucine, L-Threonine, Magnesium Hydrogen Phosphate, Tripotassium Citrate, L-Serine, L-Histidine, L-Alanine, Artificial Flavor, 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, Acesulfame Potassium, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamine Hydrochloride, Riboflavin, Beta-Carotene (For Color), Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Beet Juice Concentrate (For Color), Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Contains: Soy.**

**Unflavored:** 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, 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, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**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 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
- Provides 150 mg of DHA per pouch
- Available in 2 flavors: Juicy Orange (contains 45.5% juice), and Mixed Berry Blast (contains 43.5% juice)
- Osmolality:

Juicy Orange (at 0.96 kcal/mL):  
2460 mOsm/kg H<sub>2</sub>O

Mixed Berry Blast (at 1 kcal/mL):  
2460 mOsm/kg H<sub>2</sub>O

### Indications:

- Phenylketonuria

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

### Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code <sup>†</sup>	Product Packaging	Calories Per Pouch
86051 Juicy Orange	49735-0195-35	B4157 and B4162	30 x 4.2 fl oz (125 mL)	120
86021 Mixed Berry Blast	49735-0161-30	B4157 and B4162	30 x 4.2 fl oz (125 mL)	125

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

<sup>†</sup> S9435 = For individuals who submit their bills to insurance on their own.

\*May contain traces of phenylalanine (PHE) from fruit juice concentrate at a level of <5 mg per 100 mL.

### Nutrition Information:

Nutrients	Per Pouch (125 mL)		Per 10 g Protein Equivalent	
	Per Pouch (125 mL)	Per 10 g Protein Equivalent	Per Pouch (125 mL)	Per 10 g Protein Equivalent
<b>Calories</b>				
Juicy Orange/Mixed Berry Blast	120/125	60/62.5		
Protein Equivalent, g	20	10		
<b>Fat, g</b>				
Juicy Orange/Mixed Berry Blast	0.44/0.45	0.22/0.23		
DHA, mg	150	75		
<b>Carbohydrate, g</b>				
Juicy Orange/Mixed Berry Blast	9.3/11.1	4.7/5.6		
Fiber, g				
Juicy Orange/Mixed Berry Blast	0.50/0	0.25/0		
<b>Amino Acids, g</b>				
L-Alanine	1.16	0.58		
L-Arginine	2.00	1.00		
L-Aspartic Acid	1.75	0.88		
L-Cystine	0.51	0.26		
Glycine	1.88	0.94		
L-Histidine	0.79	0.40		
L-Isoleucine	1.24	0.62		
L-Leucine	2.13	1.07		
L-Lysine	1.63	0.82		
L-Methionine	0.34	0.17		
L-Phenylalanine	Trace*	Trace*		
L-Proline	2.00	1.00		
L-Serine	1.09	0.55		
L-Threonine	1.04	0.52		
L-Tryptophan	0.41	0.21		
L-Tyrosine	1.88	0.94		
L-Valine	1.38	0.69		
L-Carnitine	0.01	0.01		
Taurine	0.10	0.05		
<b>Vitamins</b>				
Vitamin A, IU (mcg RE)				
Juicy Orange/Mixed Berry Blast	949/907 (285/273)	475 (143)/ 454 (143/137)		
Vitamin D <sub>3</sub> , IU (mcg)	320 (8.0)	160 (4.0)		
Vitamin E, IU (mg α-TE)				
Juicy Orange/Mixed Berry Blast	4.8 (3.2/3.1)	2.4 (1.6)		
Vitamin K, mcg	249	125		
Thiamine, mg				
Juicy Orange/Mixed Berry Blast	0.54/0.39	0.27/0.20		
Riboflavin, mg	0.50	0.25		
Vitamin B <sub>6</sub> , mg	0.58	0.29		
Vitamin B <sub>12</sub> , mcg	18	0.90		
Niacin, mg	71	36		
Folic Acid, mcg	120	60.0		
Pantothenic Acid, mg	18	0.90		
Biotin, mcg	53.4	26.7		
Vitamin C, mg	17.8	8.9		
Choline, mg	153	76.5		
Inositol, mg				
Juicy Orange/Mixed Berry Blast	406/50	203/25		
<b>Minerals</b>				
Calcium, mg	319	160		
Phosphorus, mg	244	122		
Magnesium, mg				
Juicy Orange/Mixed Berry Blast	96.3/96	48.2/48		
Iron, mg	5.1	2.6		
Zinc, mg	3.8	1.9		
Manganese, mg	0.56	0.28		
Copper, mcg				
Juicy Orange/Mixed Berry Blast	563/500	282/250		
Iodine, mcg	56.3	28.2		
Molybdenum, mcg	25.0	12.5		
Chromium, mcg	10.8	5.4		
Selenium, mcg	26.8	13.4		
Sodium, mg	<25	<12.5		
Potassium, mg				
Juicy Orange/Mixed Berry Blast	90.0/75	45.0/37.5		
Chloride, mg	<25	<12.5		

### Ingredients:

**Juicy Orange:** Orange Juice Concentrate (45.5%), Water, Corn Syrup Solids, 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<sup>††</sup>, N-Acetyl-L-Methionine, Microcrystalline Cellulose, Natural Flavor, L-Ascorbic Acid, Taurine, L-Methionine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate, Sucralose, Ferrous Lactate, Cellulose Gum, Acesulfame Potassium, L-Carnitine, Sodium Benzoate, Zinc Sulfate, Niacinamide, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamine 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.

**Mixed Berry Blast:** Apple Juice from Concentrate (34.1%), Water, Grape Juice from Concentrate (6.9%), Blackcurrant Juice from Concentrate (2.5%), L-Leucine, L-Proline, L-Arginine, Glycine, L-Tyrosine, Citric Acid, L-Lysine Acetate, Dried Glucose Syrup, L-Valine, L-Aspartic Acid, L-Isoleucine, Dicalcium Phosphate, L-Alanine, L-Serine, L-Threonine, Elderberry Juice from Concentrate (0.6%), L-Histidine, L-Lysine L-Aspartate, Maltodextrin, Magnesium Acetate, L-Cystine, Microcrystalline Cellulose, Guar Gum, Xanthan Gum, Sodium Carboxymethylcellulose, L-Tryptophan, Choline Bitartrate, Sugar, N-Acetyl L-Methionine, Schizochytrium SP. Oil<sup>††</sup>, Strawberry Flavor, Apple Concentrate, Blackcurrant Concentrate, Radish Concentrate, L-Ascorbic Acid, Taurine, L-Methionine, Sunflower Oil, Sunflower Lecithin, Sucralose, Acesulfame K, Potassium Sorbate, Sodium Benzoate, Inositol, Ferrous Lactate, L-Carnitine, Zinc Sulphate, Nicotinamide, DL-Alpha-Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulphate, Copper Sulphate, Thiamin Hydrochloride, Pyridoxine Hydrochloride, Retinyl Palmitate, Riboflavin, Tocopherol-Rich Extract, Fatty Acid Esters of Ascorbic Acid, Pteroylmonoglutamic Acid, Potassium Iodide, Sodium Molybdate, Sodium Selenite, D-Biotin, Chromium Chloride, Phytomenadione, Cholecalciferol, Cyanocobalamin.

<sup>††</sup>A source of docosahexaenoic acid (DHA).



## 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 prebiotics.

### Main Features:

- Valine-, leucine-, and isoleucine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- 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 (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H<sub>2</sub>O based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 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
151627	49735-0116-27	B4162	6 x 400 g (14.1 oz)	1864

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	466	345	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 (73)	8.1 (5.4)
Saturated, g	7.9	5.8	Vitamin K, mcg	48.5	35.9
Monounsaturated, g	9.8	7.2	Thiamine, mcg	500	370
Polyunsaturated, g	5.3	3.9	Riboflavin, mcg	500	370
DHA, mg	60.0	44.4	Vitamin B <sub>6</sub> , mcg	500	370
ARA, mg	120	88.9	Vitamin B <sub>12</sub> , mcg	13	0.96
Linoleic Acid, mg	3500	2593	Niacin, mcg	2200	1630
Carbohydrate, g	53.7	39.8	Folic Acid, mcg	55.0	40.7
Fiber, g	3.5	2.6	Pantothenic Acid, mcg	2800	2074
GOS, g	3.0	2.2	Biotin, mcg	182	13.5
FOS, g	0.5	0.37	Vitamin C, mg	49.0	36.3
<b>Amino Acids, g</b>			Choline, mg	91.0	67.4
L-Alanine	1.46	1.08	Inositol, mg	98.0	72.6
L-Arginine	0.69	0.51	<b>Minerals</b>		
L-Aspartic Acid	0.78	0.59	Calcium, mg	371	275
L-Cystine	0.30	0.22	Phosphorus, mg	270	200
L-Glutamic Acid	1.60	1.19	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	0.80	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	1.07	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	1.16	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	0.03	0.02			

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soybean, Coconut, and Canola Oils), GalactoOligosaccharides (Milk), L-Glutamine, L-Lysine Acetate, L-Alanine, L-Tyrosine, L-Phenylalanine, Tricalcium Phosphate, Citric Acid Esters Of Mono-And Diglycerides, L-Threonine, L-Histidine, L-Asparagine, L-Proline, L-Tryptophan, L-Arginine, L-Serine, Potassium Chloride, Fructo-Oligosaccharides, Tripotassium Citrate, L-Glutamic acid, Sodium Phosphate Dibasic, L-Methionine, Glycine, Magnesium Acetate, *M. Alpina* Oil\*, L-Cystine, Choline Bitartrate, *C. Cohnii* Oil\*\*, L-Ascorbic Acid, M-Inositol, Sodium Chloride, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Manganese Sulfate, Folic Acid, Chromium Chloride, Phylloquinone, Sodium Selenite, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

Contains: Milk, Soybean Oil, Coconut Oil.

\*A source of Arachidonic Acid (ARA)

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

Contains GOS/FOS 0.8 g per 100 mL



## Complex MSD® Essential

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 two studies<sup>†</sup>
- Complete with essential vitamins and minerals
- Provides 25 g of protein equivalent per 100 g of powder
- Available in Vanilla flavor
- Osmolality (at 0.63 kcal/mL): 770 mOsm/kg H<sub>2</sub>O based on dilution of 40 g powder (1 scoop) to 7 fl oz (210 mL) water

### 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
201517	49735-0101-75	B4157 or B4162	6 x 454 g (1 lb)	1689

**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 40 g of Powder (1 scoop)	Vitamins	Per 100 g	Per 40 g of Powder (1 scoop)
Calories	372	149	Vitamin A, mcg RAE	510	204
Protein Equivalent, g	25	10	(from Vitamin A Acetate), mcg RAE	383	153
Fat, g	9.6	3.8	(from Beta-carotene), mcg RAE	128	51
Saturated, g	4.1	1.6	Vitamin D <sub>3</sub> , mcg	15.0	6.0
Monounsaturated, g	3.6	1.4	Vitamin E, mg α-TE	12.3	4.9
Polyunsaturated, g	1.9	0.76	Vitamin K, mcg	50	20
DHA, mg	160	64	Thiamine, mg	15	0.60
EPA, mg	40	16	Riboflavin, mg	1.5	0.60
Carbohydrate, g	48.8	19.5	Vitamin B <sub>6</sub> , mg	1.3	0.52
Fiber, g	3.9	1.5	Vitamin B <sub>12</sub> , mcg	2.0	0.80
<b>Amino Acids, g</b>			Niacin, mg	12	4.8
L-Alanine	2.70	1.08	Folic Acid, mcg	250	100
L-Arginine	1.28	0.51	Pantothenic Acid, mg	5.5	2.2
L-Asparagine	1.45	0.58	Biotin, mcg	30	12
L-Cystine	0.56	0.22	Vitamin C, mg	60	24
L-Glutamic Acid	0.86	0.35	Choline, mg	100	40
L-Glutamine	7.17	2.87	Inositol, mg	40	16
Glycine	0.67	0.27	<b>Minerals</b>		
L-Histidine	1.79	0.71	Calcium, mg	814	326
L-Isoleucine	Nil Added	Nil Added	Phosphorus, mg	864	346
L-Leucine	Nil Added	Nil Added	Magnesium, mg	200	80
L-Lysine	2.27	0.91	Iron, mg	13	5.2
L-Methionine	0.74	0.30	Zinc, mg	12	4.8
L-Phenylalanine	2.20	0.88	Manganese, mg	15	0.60
L-Proline	1.48	0.59	Copper, mcg	1000	400
L-Serine	1.12	0.45	Iodine, mcg	120	48
L-Threonine	1.81	0.72	Molybdenum, mcg	75	30
L-Tryptophan	1.33	0.53	Chromium, mcg	40	16
L-Tyrosine	2.20	0.88	Selenium, mcg	100	40
L-Valine	Nil Added	Nil Added	Sodium, mg	690	276
L-Carnitine	0.06	0.02	Potassium, mg	1301	520
Taurine	0.14	0.06	Chloride, mg	860	344

### Ingredients:

Corn Syrup Solids, Sugar, L-Glutamine, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), L-Lysine Acetate, Natural and Artificial Flavors, L-Alanine, Calcium Phosphate, Potassium Citrate, High Oleic Sunflower Oil, L-Phenylalanine, L-Tyrosine, and contains 2% or less of the following: Fructooligosaccharides, Inulin, Corn Starch, Microcrystalline Cellulose, Gum Arabic, Soy Fiber, Sodium L-Ascorbate, L-Threonine, L-Histidine, L-Asparagine Monohydrate, Canola Oil, Sunflower Oil, Magnesium Phosphate, Sodium Chloride, L-Proline, Dipotassium Phosphate, L-Tryptophan, L-Arginine, L-Serine, L-Glutamic Acid, L-Methionine, Glycine, L-Cystine, Schizochytrium sp. Oil\*, Citric Acid Esters of Mono- and Diglycerides, Modified Corn Starch, Choline Bitartrate, Sodium Citrate, Taurine, L-Ascorbic Acid, L-Carnitine, Ferrous Sulfate, Inositol, Vitamin E Acetate, Zinc Sulfate, Sunflower Lecithin, Niacinamide, Ascorbyl Palmitate, Copper Sulfate, Calcium D-Pantothenate, Vitamin D<sub>3</sub>, Vitamin A Acetate, Vitamin K<sub>1</sub>, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Chromium Chloride, Sodium Selenite, Pyridoxine Hydrochloride, Riboflavin, Potassium Iodide, Thiamine Hydrochloride, Folic Acid, Sodium Molybdate, Vitamin B<sub>12</sub>.

Contains: Soy.

\*With docosahexaenoic acid (DHA) and eicosapentaenoic acid (EPA)

<sup>†</sup> Strauss KA et al. Mol Genet Metab. 2010;99:333-45 and Strauss KA, et al. Mol Genet Metab. 2020;129:193-206.



## 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 two studies<sup>†</sup>
- Does not contain fat, carbohydrates, vitamins or minerals
- 40 calories per serving
- Provides 81 g of protein equivalent per 100 g of powder
- Unflavored powder
- Displacement: 0.47 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
200773	49735-0101-85	B4155	6 x 454 g (1 lb)	1525

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 12.4 g of Powder (1 scoop)	Amino Acids, g	
			Per 100 g	Per 12.4 g of Powder (1 scoop)
Calories	336	42	L-Alanine	8.72
Protein Equivalent, g	81	10	L-Arginine	4.13
Fat, g	0	0	L-Asparagine	4.67
Carbohydrate, g	0	0	L-Cystine	1.80
			L-Glutamic Acid	2.79
			L-Glutamine	23.12
			Glycine	2.16
			L-Histidine	5.76
			L-Isoleucine	Nil Added
			L-Leucine	Nil Added
			L-Lysine	7.32
			L-Methionine	2.38
			L-Phenylalanine	7.09
			L-Proline	4.76
			L-Serine	3.60
			L-Threonine	5.83
			L-Tryptophan	4.28
			L-Tyrosine	7.08
			L-Valine	Nil Added
			L-Carnitine	0.19
			Taurine	0.46

### 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 be combined with an appropriate vitamin & mineral supplement when taken as the sole source of MSUD medical food.

<sup>†</sup> Strauss KA et al. Mol Genet Metab. 2010;99:333-45 and Strauss KA, et al. Mol Genet Metab. 2020;129:193-206.



## 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
- 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 H<sub>2</sub>O):  
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
175749	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		Vitamins	Per 10 g	
	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	<0.25	Vitamin E, IU (mg α-TE)	183 (12.3)	4.6 (3.1)
Carbohydrate, g	34	8.5	Vitamin K, mcg	82	20.5
<b>Amino Acids, g</b>			Thiamine, 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	0.40
L-Aspartic Acid	3.4	0.85	Vitamin B <sub>12</sub> , mcg	3.1	0.78
L-Cystine	1.6	0.40	Niacin, mg	5.7	1.4
L-Glutamic Acid	4.6	1.15	Folic Acid, mcg	4.91	1.23
L-Glutamine	0.32	0.08	Pantothenic Acid, mg	4.9	1.2
Glycine	3.7	0.93	Biotin, mcg	24.5	6.1
L-Histidine	2.3	0.58	Vitamin C, mg	62	15.5
L-Isoleucine	Nil Added	Nil Added	Choline, mg	430	108
L-Leucine	Nil Added	Nil Added	Inositol, mg	80	20
L-Lysine	4.2	1.05	<b>Minerals</b>		
L-Methionine	0.99	0.25	Calcium, mg	1183	296
L-Phenylalanine	2.8	0.70	Phosphorus, mg	1137	284
L-Proline	4.5	1.13	Magnesium, mg	306	76.5
L-Serine	2.8	0.70	Iron, mg	14.7	3.7
L-Threonine	3.1	0.78	Zinc, mg	9.0	2.3
L-Tryptophan	1.3	0.33	Manganese, mg	1.8	0.45
L-Tyrosine	2.8	0.70	Copper, mcg	820	205
L-Valine	Nil Added	Nil Added	Iodine, mcg	131	32.8
L-Carnitine	0.04	0.01	Molybdenum, mcg	37	9.3
Taurine	0.14	0.04	Chromium, mcg	26	6.5
			Selenium, mcg	58	14.5
			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, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Beta-Carotene (For Color), Chromium Chloride, Beet Juice Concentrate (For Color), 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 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
- No artificial flavors
- Contains 44.1% juice
- Provides 150 mg of DHA per pouch
- Available in Mixed Berry Blast flavor
- Osmolality (at 1.04 kcal/mL): 2460 mOsm/kg H<sub>2</sub>O

### 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 <sup>†</sup>	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*.

<sup>†</sup> 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	130	65	Vitamin A, IU (mcg RE)	907(273)	454 (136)
Protein Equivalent, g	20	10	Vitamin D <sub>3</sub> , IU (mcg)	320(8.0)	160(4.0)
Fat, g	0.46	0.23	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	12.6	6.3	Thiamine, mg	0.39	0.19
Fiber, g	0	0	Riboflavin, mg	0.50	0.25
<b>Amino Acids, g</b>			Vitamin B <sub>6</sub> , mg	0.58	0.29
L-Alanine	140	0.70	Vitamin B <sub>12</sub> , mcg	18	0.90
L-Arginine	190	0.95	Niacin, mg	7.1	3.6
L-Aspartic Acid	145	0.73	Folic Acid, mcg	120	60.0
L-Cystine	120	0.60	Pantothenic Acid, mg	18	0.9
Glycine	190	0.95	Biotin, mcg	53.4	26.7
L-Histidine	100	0.50	Vitamin C, mg	17.8	8.9
L-Isoleucine	Trace*	Trace*	Choline, mg	153	76.5
L-Leucine	Trace*	Trace*	Inositol, mg	50	25
L-Lysine	1.78	0.89	<b>Minerals</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	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	250
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	75	38
			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, Schizochytrium Sp. Oil\*\*, Sugar, Microcrystalline Cellulose, Natural Flavor, Guar Gum, Fruit Concentrates (Apple, Blackcurrant, Radish), L-Ascorbic Acid, Xanthan Gum, Taurine, Sunflower Lecithin, Inositol, Potassium Sorbate, Acesulfame Potassium, Sodium Carboxymethylcellulose, Ferrous Lactate, Sucralose, Sodium Benzoate, Zinc Sulfate, L-Carnitine, Niacinamide, DL-Alpha Tocopheryl Acetate, Manganese Sulfate, Calcium D-Pantothenate, Copper Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Ascorbyl Palmitate, Mixed Tocopherols, Potassium Iodide, Sodium Molybdate, Folic Acid, Sodium Selenite, Chromium Chloride, D-Biotin, Phylloquinone, Vitamin D<sub>3</sub>, Cyanocobalamin

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

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



## 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 prebiotics.

### Main Features:

- Leucine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- 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 (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H<sub>2</sub>O 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
151625	49735-0116-25	B4162	6 x 400 g (14.1 oz)	1864

**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	466	345	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)	109 (7.3)	81 (5.4)
Saturated, g	7.9	5.9	Vitamin K, mcg	48.5	35.9
Monounsaturated, g	9.8	7.3	Thiamine, mcg	500	370
Polyunsaturated, g	5.3	3.9	Riboflavin, mcg	500	370
DHA, mg	60.0	44.4	Vitamin B <sub>6</sub> , mcg	500	370
ARA, mg	120	88.9	Vitamin B <sub>12</sub> , mcg	1.3	0.96
Linoleic Acid, mg	3500	2593	Niacin, mcg	2200	1630
Carbohydrate, g	53.7	39.8	Folic Acid, mcg	55.0	40.7
Fiber, g	3.5	2.6	Pantothenic Acid, mcg	2800	2074
GOS, g	3.0	2.2	Biotin, mcg	18.2	13.5
FOS, g	0.50	0.37	Vitamin C, mg	490	36.3
<b>Amino Acids, g</b>			Choline, mg	910	674
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	1.00	Magnesium, mg	52.5	38.9
L-Glutamine	0.11	0.08	Iron, mg	7.3	5.4
Glycine	2.18	1.61	Zinc, mg	5.2	3.9
L-Histidine	0.70	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	0.30	0.22	Chromium, mcg	12.5	9.3
L-Phenylalanine	0.82	0.61	Selenium, mcg	14.1	10.4
L-Proline	2.19	1.62	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	0.80	0.59			
L-Valine	0.48	0.36			
L-Carnitine	0.01	0.007			
Taurine	0.03	0.02			

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soybean, Coconut, And Canola Oils), GalactoOligosaccharides (Milk), L-Lysine-L-Glutamate, L-Proline, Glycine, L-Arginine, Tricalcium Phosphate, L-Aspartic Acid, Citric Acid Esters Of Mono- and Diglycerides, L-Tyrosine, L-Phenylalanine, L-Alanine, L-Threonine, L-Histidine, L-Serine, Potassium Chloride, Fructooligosaccharides, 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, L-Ascorbic Acid, M-Inositol, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Cupric Sulfate, Thiaminehydrochloride, Pyridoxinehydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Manganese Sulfate, Folic Acid, Chromium Chloride, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin

Contains: Milk, Soybean Oil, Coconut Oil.

\*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 (IVA) 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 of protein equivalent (PE) and 12.5 g of fat per 100 g of powder
- Available in Plain flavor
- Osmolality (at 11 kcal/mL): 1220 mOsm/kg H<sub>2</sub>O 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
- 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
89471	49735-0194-71	B4157 or 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	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 (9.4)
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	175	6.3
Monounsaturated, g	8.2	2.9	Thiamine, mg	0.91	0.33
Polyunsaturated, g	1.8	0.64	Riboflavin, mg	0.91	0.33
DHA, mg	180	64.3	Vitamin B <sub>6</sub> , mg	0.91	0.33
Carbohydrate, g	412	14.7	Vitamin B <sub>12</sub> , mcg	1.6	0.57
Fiber, g	112	4.0	Niacin, mg	2.5	0.90
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	14.0	5.0
L-Alanine	135	0.48	Vitamin C, mg	52.5	18.8
L-Arginine	235	0.84	Choline, mg	280	100
L-Aspartic Acid	2.00	0.71	Inositol, mg	70.0	25.0
L-Cystine	0.94	0.34	<b>Minerals</b>		
L-Glutamic acid	188	0.67	Calcium, mg	1225	438
L-Glutamine	316	1.13	Phosphorus, mg	801	286
Glycine	4.60	1.64	Magnesium, mg	140	50.0
L-Histidine	1.40	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	0.43
L-Lysine	2.20	0.79	Copper, mcg	700	250
L-Methionine	0.64	0.23	Iodine, mcg	174	62.1
L-Phenylalanine	1.70	0.61	Molybdenum, mcg	31.9	11.4
L-Proline	4.10	1.46	Chromium, mcg	12.8	4.6
L-Serine	1.45	0.52	Selenium, mcg	35.3	12.6
L-Threonine	1.50	0.54	Sodium, mg	350	125
L-Tryptophan	0.58	0.21	Potassium, mg	556	199
L-Tyrosine	1.70	0.61	Chloride, mg	508	181
L-Valine	1.04	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, Citric Acid Esters of Mono- and Diglycerides (CITREM), *C. cohnii* Oil\*, 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 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.

\*A source of Docosahexaenoic Acid (DHA)



## IVA Maxamum®

A leucine-free powdered medical food for the dietary management of isovaleric acidemia (IVA) 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
- 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 H<sub>2</sub>O):  
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
175752	49735-0177-90	B4157 or B4162	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 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	<10	<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 20.5
<b>Amino Acids, g</b>			Thiamine, 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 0.40
L-Aspartic Acid	3.0	0.75	Vitamin B <sub>12</sub> , mcg	3.1 0.78
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	12	0.30	Vitamin C, mg	62 15.5
L-Leucine	Nil Added	Nil Added	Choline, mg	430 108
L-Lysine	3.0	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 76.5
L-Threonine	2.1	0.53	Iron, mg	14.7 3.7
L-Tryptophan	0.79	0.20	Zinc, mg	9.0 2.3
L-Tyrosine	2.3	0.58	Manganese, mg	1.8 0.45
L-Valine	1.4	0.35	Copper, mcg	820 205
L-Carnitine	0.04	0.01	Iodine, mcg	131 32.8
Taurine	0.14	0.04	Molybdenum, mcg	37 9.3
L-Glutamine	0.32	0.08	Chromium, mcg	26 6.5
			Selenium, mcg	58 14.5
			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, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Beta-Carotene (For Color), Chromium Chloride, Beet Juice Concentrate (For Color), 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) and Pyridoxine-Dependent Epilepsy. Contains DHA and ARA, and a unique blend of prebiotics.

### Main Features:

- Lysine-free, low tryptophan powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- 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 (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H<sub>2</sub>O 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 aciduria type 1
- Pyridoxine-Dependent Epilepsy

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
151622	49735-0116-22	B4162	6 x 400 g (14.1 oz)	1864

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	466	345	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)	109 (73)	81 (5.4)
Saturated, g	7.9	5.9	Vitamin K, mcg	485	35.9
Monounsaturated, g	9.8	7.3	Thiamine, mcg	500	370
Polyunsaturated, g	5.3	3.9	Riboflavin, mcg	500	370
DHA, mg	60.0	44.4	Vitamin B <sub>6</sub> , mcg	500	370
ARA, mg	120	88.9	Vitamin B <sub>12</sub> , mcg	1.3	0.96
Linoleic Acid, mg	3500	2593	Niacin, mcg	2200	1630
Carbohydrate, g	53.0	39.3	Folic Acid, mcg	55.0	40.7
Fiber, g	3.5	2.6	Pantothenic Acid, mcg	2800	2074
GOS, g	3.0	2.2	Biotin, mcg	182	135
FOS, g	0.50	0.37	Vitamin C, mg	490	36.3
<b>Amino Acids, g</b>			Choline, mg	91.0	67.4
L-Alanine	0.65	0.48	Inositol, mg	98.0	72.6
L-Arginine	1.46	1.08	<b>Minerals</b>		
L-Aspartic Acid	0.97	0.72	Calcium, mg	371	275
L-Cystine	0.24	0.18	Phosphorus, mg	270	200
L-Glutamic Acid	1.33	0.99	Magnesium, mg	52.5	38.9
L-Glutamine	2.43	1.80	Iron, mg	7.3	5.4
Glycine	0.32	0.24	Zinc, mg	5.2	3.9
L-Histidine	0.49	0.36	Manganese, mcg	390	289
L-Isoleucine	1.13	0.84	Copper, mcg	390	289
L-Leucine	1.86	1.38	Iodine, mcg	82.5	61.1
L-Lysine	Nil Added	Nil Added	Molybdenum, mcg	10.9	8.1
L-Methionine	0.55	0.41	Chromium, mcg	12.5	9.3
L-Phenylalanine	0.86	0.64	Selenium, mcg	14.1	10.4
L-Proline	0.81	0.60	Sodium, mg	171	127
L-Serine	0.32	0.24	Potassium, mg	454	336
L-Threonine	0.86	0.64	Chloride, mg	321	238
L-Tryptophan	0.08	0.06			
L-Tyrosine	0.97	0.72			
L-Valine	1.30	0.96			
L-Carnitine	0.01	0.007			
Taurine	0.03	0.02			

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soybean, Coconut, and Canola Oils), GalactoOligosaccharides (Milk), L-Glutamine, L-Leucine, L-Arginine, L-Valine, L-Isoleucine, Tricalcium Phosphate, L-Asparagine, Citric Acid Esters Of Mono- And Diglycerides, L-Tyrosine, L-Threonine, L-Phenylalanine, L-Proline, L-Alanine, Potassium Chloride, L-Methionine, Fructooligosaccharides, Tripotassium Citrate, L-Histidine, L-Glutamic Acid, Sodium Phosphate Dibasic, Magnesium Acetate, L-Serine, Glycine, *M. Alpina* Oil\*, Choline Bitartrate, L-Cystine, *C. Cohnii* Oil\*\*, Sodium Chloride, L-Ascorbic Acid, M-Inositol, L-Tryptophan, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Manganese Sulfate, Folic Acid, Chromium Chloride, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin

Contains: Milk, Soybean Oil, Coconut Oil.

\*A source of Arachidonic Acid (ARA)

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

Contains GOS/FOS 0.8 g per 100 mL



## GlutarAde® Essential

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

### Main Features:

- Lysine free, low-tryptophan
- Amino acid profile specifically designed for GA-1; clinically researched in two studies<sup>†</sup>
- Contains arginine and 150 mg of tryptophan per 100 g of powder
- Contains a source of Omega-3 fatty acids
- Provides 25 g of protein equivalent per 100 g of powder
- Available in Vanilla flavor
- Osmolality (at 0.64 kcal/mL): 797 mOsm/kg H<sub>2</sub>O based on dilution of 40 g powder (1 scoop) to 7 fl oz (210 mL) water
- Displacement: 0.75 mL/g

### Indications:

- Glutaric aciduria type 1
- Pyridoxine Dependent Epilepsy

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
120462	00847-0754-22	B4157 or B4162	4 x 454 g (1 lb)	1621

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 40 g of powder (1 scoop)		Per 40 g of Powder (1 scoop)	
	Per 100 g	Per 100 g	Per 100 g	Per 100 g
Calories	382	143	510	204
Protein Equivalent, g	25	10		
Fat, g	10.1	3.9		
Saturated, g	4.3	1.7		
Monounsaturated, g	3.6	1.5		
Polyunsaturated, g	1.7	0.7		
Linoleic Acid, mg	1478	64.0		
α-Linolenic Acid, mg	40.0	16.0		
Carbohydrate, g	50.3	20.0		
Fiber, g	3.9	1.5		
<b>Amino Acids, g</b>				
L-Alanine	120	0.48		
L-Arginine	2.7	1.08		
L-Asparagine	1.8	0.72		
L-Cystine	0.45	0.18		
L-Glutamic Acid	0.9	0.36		
L-Glutamine	4.51	1.8		
Glycine	0.6	0.24		
L-Histidine	0.9	0.36		
L-Isoleucine	2.1	0.84		
L-Leucine	3.46	1.38		
L-Lysine	Nil Added	Nil Added		
L-Methionine	1.02	0.41		
L-Phenylalanine	1.59	0.64		
L-Proline	1.5	0.6		
L-Serine	0.6	0.24		
L-Threonine	1.59	0.64		
L-Tryptophan	0.15	0.06		
L-Tyrosine	1.8	0.72		
L-Valine	2.4	0.96		
L-Carnitine	0.06	0.02		
Taurine	0.13	0.05		
<b>Vitamins</b>				
Vitamin A, mcg RE (25% as beta-carotene)			510	204
Vitamin D <sub>3</sub> , mcg			15.0	6.0
Vitamin E, mg α-TE			12.8	5.1
Vitamin K, mcg			70.0	28.0
Thiamine, mg			1.5	0.6
Riboflavin, mg			1.5	0.6
Vitamin B <sub>6</sub> , mg			1.4	0.56
Vitamin B <sub>12</sub> , mcg			3.0	1.2
Niacin, mg			15.5	6.2
Folic Acid, mcg			300	120
Pantothenic Acid, mg			7.5	3.0
Biotin, mcg			30.0	12.0
Vitamin C, mg			60.0	24.0
Choline, mg			313	125
Inositol, mg			50.0	20.0
<b>Minerals</b>				
Calcium, mg			1206	482
Phosphorus, mg			787	315
Magnesium, mg			201	80.0
Iron, mg			11.3	4.5
Zinc, mg			10.0	4.0
Manganese, mg			1.9	0.76
Copper, mcg			1000	400
Iodine, mcg			115	46.0
Molybdenum, mcg			31.0	12.4
Chromium, mcg			21.0	8.4
Selenium, mcg			63.0	25.0
Sodium, mg			328	131
Potassium, mg			874	350
Chloride, mg			475	190

### Ingredients:

Corn Syrup Solids, Sugar, L-Glutamine, L-Leucine, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), Natural and Artificial Flavors, Dicalcium Phosphate, L-Arginine, L-Valine, High Oleic Sunflower Oil, L-Isoleucine, L-Asparagine Monohydrate, and contains less than 2% of the following: Soy Fiber, Microcrystalline Cellulose, Gum Arabic, Corn Starch, Inulin, Fructooligosaccharides, L-Tyrosine, Canola Oil, Sunflower Oil, L-Phenylalanine, L-Threonine, L-Proline, Potassium Citrate, L-Alanine L-Methionine, Sodium Citrate, Potassium Chloride, L-Glutamic Acid, L-Histidine, Choline Bitartrate, Glycine, L-Serine, L-Cystine, Schizochytrium sp. Oil\*, Magnesium Oxide, Citric Acid Esters of Mono- and Diglycerides, Modified Corn Starch, Silicon Dioxide, L-Tryptophan, Taurine, Sodium L-Ascorbate, L-Ascorbic Acid, Inositol, Ferrrous Sulfate, Vitamin E Acetate, L-Carnitine, Sunflower Lecithin, Niacinamide, Tricalcium Phosphate, Zinc Sulfate, Ascorbyl Palmitate, Sucralose, Calcium D-Pantothenate, Copper Sulfate, Vitamin K<sub>1</sub>, Vitamin D<sub>3</sub>, Manganese Sulfate, Vitamin A Acetate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Pyridoxine Hydrochloride, Potassium Iodide, Riboflavin, Thiamine Hydrochloride, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate.

### CONTAINS: SOY

\*With docosahexaenoic acid (DHA) and eicosapentaenoic acid (EPA)

<sup>†</sup> Strauss KA, et al. Mol Genet Metab. 2011;104:93-106 and Strauss, KA, et al. Mol Genet Metab. 2020;131:325-40.



## 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 (HCU) or hypermethioninemia. Contains DHA and ARA, and a unique blend of prebiotics.

### Main Features:

- Methionine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- 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 (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H<sub>2</sub>O 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
151626	49735-0116-26	B4162	6 x 400 g (14.1 oz)	1864

**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	466	345	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)	109 (7.3)	81 (5.4)
Saturated, g	7.9	5.9	Vitamin K, mcg	485	359
Monounsaturated, g	9.8	7.3	Thiamine, mcg	500	370
Polyunsaturated, g	5.3	3.9	Riboflavin, mcg	500	370
DHA, mg	60.0	44.4	Vitamin B <sub>6</sub> , mcg	500	370
ARA, mg	120	88.9	Vitamin B <sub>12</sub> , mcg	1.3	0.96
Linoleic Acid, mg	3500	2593	Niacin, mcg	2200	1630
Carbohydrate, g	53.7	39.8	Folic Acid, mcg	55.0	40.7
Fiber, g	3.5	2.6	Pantothenic Acid, mcg	2800	2074
GOS, g	3.0	2.2	Biotin, mcg	182	135
FOS, g	0.5	0.37	Vitamin C, mg	490	363
<b>Amino Acids, g</b>			Choline, mg	910	674
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	1.24	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	0.007			
Taurine	0.03	0.02			

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soybean, Coconut, and Canola Oils), GalactoOligosaccharides (Milk), L-Lysine-L-Glutamate, L-Leucine, L-Proline, Tricalcium Phosphate, L-Arginine, L-Valine, Glycine, L-Isoleucine, Citric Acid Esters Of Mono- And Diglycerides, L-Aspartic Acid, L-Thiamine, L-Serine, L-Phenylalanine, L-Tyrosine, L-Alanine, L-Histidine, Potassium Chloride, Fructooligosaccharides, Tripotassium Citrate, Sodium Phosphate Dibasic, L-Cystine, Magnesium Acetate, L-Tryptophan, *M. Alpina* Oil\*, Choline Bitartrate, *C. Cohnii* Oil\*\*, L-Glutamine, Sodium Chloride, L-Ascorbic Acid, M-Inositol, L-Glutamic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Manganese Sulfate, Folic Acid, Chromium Chloride, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

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

\*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 (HCU) 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 of protein equivalent and 12.5 g of fat per 100 g of powder
- Available in Plain flavor
- Osmolality (at 11 kcal/mL): 1340 mOsm/kg H<sub>2</sub>O based on dilution of 36 g powder (approx 4 scoops) to 3.5 fl oz (100 mL) water
- Displacement: 0.72 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
89470	49735-0194-70	B4162 or B4157	6 x 400 g (14.1 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		Vitamins	Per 10 g	
	Per 100 g	Protein Equivalent		Per 100 g	Protein Equivalent
Calories	385	138	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 (3.0)
Saturated, g	2.0	0.71	Vitamin K, mcg	14.0	5.0
Monounsaturated, g	8.2	2.9	Thiamine, mg	0.73	0.26
Polyunsaturated, g	18	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	4.0	Niacin, mg	2.0	0.71
Soluble, g	8.0	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	4.0
L-Alanine	140	0.50	Vitamin C, mg	42	15
L-Arginine	2.25	0.80	Choline, mg	224	80
L-Aspartic Acid	2.00	0.71	Inositol, mg	56	20
L-Cystine	150	0.54	<b>Minerals</b>		
L-Glutamine	2.60	0.93	Calcium, mg	980	350
Glycine	2.13	0.76	Phosphorus, mg	641	229
L-Histidine	1.22	0.44	Magnesium, mg	113	40.4
L-Isoleucine	2.10	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	150	0.54	Iodine, mcg	139	49.6
L-Proline	2.52	0.90	Molybdenum, mcg	25.5	9.1
L-Serine	1.57	0.56	Chromium, mcg	10.2	3.6
L-Threonine	2.00	0.71	Selenium, mcg	28.2	10.1
L-Tryptophan	0.50	0.18	Sodium, mg	280	100
L-Tyrosine	1.60	0.57	Potassium, mg	445	159
L-Valine	2.30	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, Citric Acid Esters of Mono- and Diglycerides (CITREM), L-Tryptophan, *C. cohnii* Oil\*, Magnesium L-Aspartate, 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 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)



## HCU Maxamum<sup>®</sup>

A methionine-free powdered medical food for the dietary management of vitamin B<sub>6</sub> non-responsive homocystinuria (HCU) 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
- Provides 40 g of protein equivalent (PE) 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 H<sub>2</sub>O):  
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
175750	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 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	<0.25	Vitamin E, IU (mg α-TE)	18.3(12.3) 4.6(3.1)
Carbohydrate, g	34.0	8.5	Vitamin K, mcg	82 20.5
<b>Amino Acids, g</b>			Thiamine, mg	0.91 0.23
L-Alanine	18	0.45	Riboflavin, mg	0.97 0.24
L-Arginine	3.2	0.80	Vitamin B <sub>6</sub> , mg	1.6 0.40
L-Aspartic Acid	2.7	0.68	Vitamin B <sub>12</sub> , mcg	3.1 0.78
L-Cystine	12	0.30	Niacin, mg	5.7 1.4
L-Glutamic Acid	3.6	0.90	Folic Acid, mcg	491 123
L-Glutamine	0.32	0.08	Pantothenic Acid, mg	4.9 1.2
Glycine	2.8	0.70	Biotin, mcg	24.5 6.1
L-Histidine	1.8	0.45	Vitamin C, mg	62 15.5
L-Isoleucine	2.8	0.70	Choline, mg	430 108
L-Leucine	4.9	1.23	Inositol, mg	80 20
L-Lysine	3.3	0.83	<b>Minerals</b>	
L-Methionine	Nil Added	Nil Added	Calcium, mg	1183 296
L-Phenylalanine	2.2	0.55	Phosphorus, mg	1137 284
L-Proline	3.4	0.85	Magnesium, mg	306 76.5
L-Serine	2.1	0.53	Iron, mg	14.7 3.7
L-Threonine	2.4	0.60	Zinc, mg	9.0 2.3
L-Tryptophan	0.95	0.24	Manganese, mg	1.8 0.45
L-Tyrosine	2.2	0.55	Copper, mcg	820 205
L-Valine	3.1	0.78	Iodine, mcg	131 32.8
L-Carnitine	0.04	0.01	Molybdenum, mcg	37 9.3
Taurine	0.14	0.04	Chromium, mcg	26 6.5
			Selenium, mcg	58 14.5
			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, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Beta-Carotene (For Color), Chromium Chloride, Beet Juice Concentrate (For Color), Sodium Molybdate, Phyloquinone, 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 homocystinuria (HCU) 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
- No artificial flavors
- Contains 44.1% juice
- Provides 150 mg of DHA per pouch
- Available in Mixed Berry Blast flavor
- Osmolality (at 1.03 kcal/mL): 2460 mOsm/kg H<sub>2</sub>O

### 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 <sup>†</sup>	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*.

<sup>†</sup> 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	129	64	Vitamin A, IU (mcg RE)	907 (273)	454 (136)
Protein Equivalent, g	20	10	Vitamin D <sub>3</sub> , IU (mcg)	320 (8.0)	160 (4.0)
Fat, g	0.46	0.23	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	12.1	6.1	Thiamine, mg	0.39	0.19
Fiber, g	0	0	Riboflavin, mg	0.50	0.25
<b>Amino Acids, g</b>			Vitamin B <sub>6</sub> , mg	0.58	0.29
L-Alanine	118	0.59	Vitamin B <sub>12</sub> , mcg	1.8	0.90
L-Arginine	150	0.75	Niacin, mg	7.1	3.6
L-Aspartic Acid	175	0.87	Folic Acid, mcg	120	60.0
L-Cystine	0.98	0.49	Pantothenic Acid, mg	1.8	0.9
Glycine	163	0.81	Biotin, mcg	53.4	26.7
L-Histidine	0.88	0.44	Vitamin C, mg	17.8	8.9
L-Isoleucine	1.38	0.69	Choline, mg	153	76
L-Leucine	2.25	1.13	Inositol, mg	50	25
L-Lysine	15	0.75	<b>Minerals</b>		
L-Methionine	Trace*	Trace*	Calcium, mg	319	160
L-Phenylalanine	100	0.50	Phosphorus, mg	244	122
L-Proline	2.00	1.00	Magnesium, mg	96	48
L-Serine	1.38	0.69	Iron, mg	5.3	2.6
L-Threonine	113	0.57	Zinc, mg	3.8	1.9
L-Tryptophan	0.45	0.23	Manganese, mg	0.53	0.26
L-Tyrosine	1.65	0.83	Copper, mcg	500	250
L-Valine	1.45	0.73	Iodine, mcg	58.4	29.2
L-Carnitine	0.01	0.01	Molybdenum, mcg	25.0	12.5
Taurine	0.07	0.03	Chromium, mcg	10.6	5.3
			Selenium, mcg	26.8	13.4
			Sodium, mg	<25.0	<12.5
			Potassium, mg	75	38
			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-Proline, Citric Acid, L-Aspartic Acid, L-Tyrosine, Glycine, L-Lysine, L-Arginine, L-Valine, L-Serine, L-Isoleucine, Corn Syrup Solids, L-Alanine, Dicalcium Phosphate, L-Threonine, L-Phenylalanine, L-Cystine, L-Histidine, Elderberry Juice From Concentrate (0.6%), Maltodextrin, Magnesium Acetate, L-Tryptophan, Choline Bitartrate, Schizochytrium Sp. Oil<sup>†</sup>, Sugar, Microcrystalline Cellulose, Natural Flavor, Guar Gum, Fruit Concentrates (Apple, Blackcurrant, Radish), L-Ascorbic Acid, Xanthan Gum, Taurine, Sunflower Lecithin, Inositol, Potassium Sorbate, Acesulfame Potassium, Sodium Carboxymethylcellulose, Ferrous Lactate, Sucralose, Sodium Benzoate, Zinc Sulfate, L-Carnitine, Niacinamide, DL-Alpha-Tocopheryl Acetate, Manganese Sulfate, Calcium D-Pantothenate, Copper Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Ascorbyl Palmitate, Mixed Tocopherols, Potassium Iodide, Sodium Molybdate, Folic Acid, Sodium Selenite, Chromium Chloride, D-Biotin, Phylloquinone, Vitamin D<sub>3</sub>, Cyanocobalamin

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

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



## MMA/PA Anamix® Early Years

A methionine-, threonine-, and valine-free, low 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 prebiotics.

### Main Features:

- A methionine-, threonine-, and valine-free, low isoleucine powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- 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 (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H<sub>2</sub>O 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
151623	49735-0116-23	B4162	6 x 400 g (14.1 oz)	1864

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	Per 10 g	
			Per 100 g	Protein Equivalent
Calories	466	345		
Protein Equivalent,g	13.5	10.0		
Fat, g	23.0	17.0		
Saturated, g	7.9	5.9		
Monounsaturated, g	9.8	7.3		
Polyunsaturated, g	5.3	3.9		
DHA, mg	60.0	44.4		
ARA, mg	120	88.8		
Linoleic Acid,mg	3500	2593		
Carbohydrate, g	53.7	39.8		
Fiber, g	3.5	2.6		
GOS, g	3.0	2.2		
FOS, g	0.50	0.37		
<b>Amino Acids, g</b>				
L-Alanine	160	119		
L-Arginine	140	104		
L-Aspartic Acid	127	0.94		
L-Cystine	0.51	0.38		
L-Glutamic Acid	159	118		
L-Glutamine	1.01	0.75		
Glycine	0.64	0.47		
L-Histidine	0.94	0.70		
L-Isoleucine	<0.01	<0.01		
L-Leucine	1.24	0.92		
L-Lysine	1.43	1.06		
L-Methionine	Nil Added	Nil Added		
L-Phenylalanine	0.93	0.69		
L-Proline	0.64	0.47		
L-Serine	0.89	0.66		
L-Threonine	Nil Added	Nil Added		
L-Tryptophan	0.41	0.30		
L-Tyrosine	0.93	0.69		
L-Valine	Nil Added	Nil Added		
L-Carnitine	0.01	0.007		
Taurine	0.03	0.02		
<b>Vitamins</b>				
Vitamin A, IU (mcg RE)	1305(392)	967(290)		
Vitamin D <sub>3</sub> , IU (mcg)	348(8.7)	258(6.4)		
Vitamin E, IU (mg α-TE)	10.9(7.3)	8.1(5.4)		
Vitamin K, mcg	48.5	35.9		
Thiamine, mcg	500	370		
Riboflavin, mcg	500	370		
Vitamin B <sub>6</sub> , mcg	500	370		
Vitamin B <sub>12</sub> , mcg	1.3	0.96		
Niacin, mcg	2200	1630		
Folic Acid, mcg	55.0	40.7		
Pantothenic Acid, mcg	2800	2074		
Biotin, mcg	18.2	13.5		
Vitamin C, mg	49.0	36.3		
Choline, mg	91.0	67.4		
Inositol, mg	98.0	72.6		
<b>Minerals</b>				
Calcium, mg	371	275		
Phosphorus, mg	270	200		
Magnesium, mg	52.5	38.9		
Iron, mg	7.3	5.4		
Zinc, mg	5.2	3.9		
Manganese, mcg	390	289		
Copper, mcg	390	289		
Iodine, mcg	82.5	61.1		
Molybdenum, mcg	10.9	8.1		
Chromium, mcg	12.5	9.3		
Selenium, mcg	14.1	10.4		
Sodium, mg	171	127		
Potassium, mg	454	336		
Chloride, mg	321	238		

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soy, Non-hydrogenated Coconut, Canola, Sunflower), Galacto-oligosaccharides (Milk), L-Lysine L-Glutamate, L-Leucine, L-Alanine, L-Arginine, L-Aspartic Acid, Tricalcium Phosphate, Citric Acid Esters of Mono- and Diglycerides, L-Histidine, L-Phenylalanine, L-Tyrosine, L-Serine, Glycine, L-Proline, Potassium Chloride, Fructo oligosaccharides, 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 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-, and valine-free, low isoleucine powdered medical food for the dietary management of methylmalonic acidemia (MMA) and propionic acidemia (PA) in individuals over 1 year of age.

### Main Features:

- Methionine, threonine, and valine free; low in 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 of protein equivalent and 12.5 g of fat per 100 g of powder
- Available in Plain flavor
- Osmolality (at 1.1 kcal/mL): 1220 mOsm/kg H<sub>2</sub>O 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 or B4157	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 100 g	Per 10 g Protein Equivalent	Vitamins	
			Per 100 g	Per 10 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 (9.4)
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	175 64
Monounsaturated, g	8.2	2.9	Thiamine, mg	0.91 0.33
Polyunsaturated, g	18	0.64	Riboflavin, mg	0.91 0.33
DHA, mg	180	64.3	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 0.90
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	14.0 5.0
L-Alanine	3.42	1.22	Vitamin C, mg	52.5 18.8
L-Arginine	3.00	1.07	Choline, mg	280 100
L-Aspartic Acid	2.72	0.97	Inositol, mg	70 25.0
L-Cystine	1.56	0.56	<b>Minerals</b>	
L-Glutamine	3.61	1.29	Calcium, mg	1225 438
Glycine	1.37	0.49	Phosphorus, mg	801 286
L-Histidine	2.02	0.72	Magnesium, mg	140 50.0
L-Isoleucine	<0.03	<0.01	Iron, mg	12.5 4.5
L-Leucine	4.54	1.62	Zinc, mg	6.1 2.2
L-Lysine	3.05	1.09	Manganese, mg	12 0.43
L-Methionine	Nil Added	Nil Added	Copper, mcg	700 250
L-Phenylalanine	1.99	0.71	Iodine, mcg	174 62.1
L-Proline	1.37	0.49	Molybdenum, mcg	31.9 11.4
L-Serine	1.98	0.71	Chromium, mcg	12.8 4.6
L-Threonine	Nil Added	Nil Added	Selenium, mcg	35.3 12.6
L-Tryptophan	0.69	0.25	Sodium, mg	350 125
L-Tyrosine	1.99	0.71	Potassium, mg	556 199
L-Valine	Nil Added	Nil Added	Chloride, mg	508 181
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, Citric Acid Esters of Mono- and Diglycerides (CITREM), *C. cohnii* Oil\*, 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 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.

\*A source of Docosahexaenoic Acid (DHA)



## MMA/PA Maxamum®

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

### Main Features:

- Methionine, threonine, and valine free; low in isoleucine
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- 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 H<sub>2</sub>O):  
Dilution  
1 to 7        740  
1 to 5        1070
- Displacement: 0.6 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
175781	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.

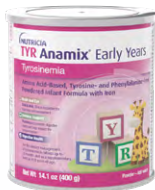
### Nutrition Information:

Nutrients	Per 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	<0.25	Vitamin E, IU (mg α-TE)	18.3 (12.3) 4.6 (3.1)
Carbohydrate, g	34.0	8.5	Vitamin K, mcg	82 20.5
<b>Amino Acids, g</b>			Thiamine, 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>12</sub> , mg	1.6 0.40
L-Aspartic Acid	3.6	0.90	Vitamin B <sub>12</sub> , mcg	3.1 0.78
L-Cystine	1.5	0.38	Niacin, mg	5.7 1.4
L-Glutamic Acid	4.5	1.13	Folic Acid, mcg	491 123
L-Glutamine	0.32	0.08	Pantothenic Acid, mg	4.9 1.2
Glycine	1.8	0.45	Biotin, mcg	24.5 6.1
L-Histidine	2.8	0.70	Vitamin C, mg	62 15.5
L-Isoleucine	<0.14	<0.05	Choline, mg	430 108
L-Leucine	6.2	1.55	Inositol, mg	80 20
L-Lysine	4.2	1.05	<b>Minerals</b>	
L-Methionine	Nil Added	Nil Added	Calcium, mg	1183 296
L-Phenylalanine	2.7	0.68	Phosphorus, mg	1137 284
L-Proline	1.9	0.48	Magnesium, mg	306 76.5
L-Serine	2.6	0.65	Iron, mg	14.7 3.7
L-Threonine	Nil Added	Nil Added	Zinc, mg	9.0 2.3
L-Tryptophan	1.2	0.30	Manganese, mg	1.8 0.45
L-Tyrosine	2.7	0.68	Copper, mcg	820 205
L-Valine	Nil Added	Nil Added	Iodine, mcg	131 32.8
L-Carnitine	0.04	0.01	Molybdenum, mcg	37 9.3
Taurine	0.14	0.04	Chromium, mcg	26 6.5
			Selenium, mcg	58 14.5
			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, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Beta-Carotene (For Color), Chromium Chloride, Beet Juice Concentrate (For Color), Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

Contains: Soy.



## TYR Anamix® Early Years

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

### Main Features:

- A phenylalanine- and tyrosine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- 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 (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H<sub>2</sub>O based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 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
151619	49735-0116-19	B4162	6 x 400 g (14.1 oz)	1864

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	466	345	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)	109 (7.3)	81 (5.4)
Saturated, g	7.5	5.6	Vitamin K, mcg	48.5	35.9
Monounsaturated, g	9.4	7.0	Thiamine, mcg	500	370
Polyunsaturated, g	5.0	3.7	Riboflavin, mcg	500	370
DHA, mg	70.0	519	Vitamin B <sub>6</sub> , mcg	500	370
ARA, mg	140	104	Vitamin B <sub>12</sub> , mcg	12	0.89
Linoleic Acid, mg	3500	2593	Niacin, mcg	2200	1630
Carbohydrate, g	53.7	39.8	Folic Acid, mcg	55.0	40.7
Fiber, g	3.5	2.6	Pantothenic Acid, mcg	2800	2074
GOS, g	3.0	2.2	Biotin, mcg	18.2	13.5
FOS, g	0.5	0.37	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	0.89	<b>Minerals</b>		
L-Aspartic Acid	1.00	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	0.13	0.09	Iron, mg	7.3	5.4
Glycine	1.07	0.80	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	1.35	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	1.30	0.96	Sodium, mg	171	127
L-Serine	0.80	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	0.87			
L-Carnitine	0.01	0.007			
Taurine	0.03	0.02			

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soybean, Coconut, and Canola Oils), Galacto- Oligosaccharides (Milk), L-Lysine, L-Glutamate, L-Leucine, L-Proline, L-Arginine, L-Valine, Tricalcium Phosphate, Glycine, L-Isoleucine, L-Aspartic Acid, Citric Acid Esters Of Mono- And Diglycerides, L-Threonine, L-Serine, L-Alanine, L-Histidine, Potassium Chloride, Fructooligosaccharides, 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, L-Ascorbic Acid, M-Inositol, L-Glutamic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Potassium Iodide, Manganese Sulfate, Folic Acid, Chromium Chloride, Phylloquinone, Mixed Tocopherols, 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 (TYR) 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 of protein equivalent (PE) and 12.5 g of fat per 100 g of powder
- Available in a Plain flavor
- Osmolality (at 1.1 kcal/mL): 1220 mOsm/kg H<sub>2</sub>O 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 or B4157	6 x 400 g (14.1 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 100 g	Per 10 g Protein Equivalent	Vitamins	
			Per 100 g	Per 10 g Protein Equivalent
Calories	385	138	Vitamin A, IU (mcg RE)	1399(420) 500(150)
Protein Equivalent, g	28	10	Vitamin D <sub>3</sub> , IU (mcg)	840(210) 300(75)
Fat, g	12.5	4.5	Vitamin E, IU (mg α-TE)	12.5 (8.4) 4.5 (3.0)
Saturated, g	2.0	0.71	Vitamin K, mcg	14.0 5.0
Monounsaturated, g	8.2	2.9	Thiamine, mg	0.73 0.26
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	432	15.4	Vitamin B <sub>12</sub> , mcg	1.3 0.46
Fiber, g	112	4.0	Niacin, mg	2.0 0.71
Soluble	8.0	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	112 4.0
L-Alanine	4.71	1.68	Vitamin C, mg	42 15
L-Arginine	1.67	0.60	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	1.20	Calcium, mg	980 350
Glycine	3.94	1.41	Phosphorus, mg	641 229
L-Histidine	0.79	0.28	Magnesium, mg	113 40.4
L-Isoleucine	1.66	0.59	Iron, mg	10 3.6
L-Leucine	2.52	0.90	Zinc, mg	4.9 1.8
L-Lysine	2.24	0.80	Manganese, mg	0.92 0.33
L-Methionine	0.56	0.20	Copper, mcg	560 200
L-Phenylalanine	Nil Added	Nil Added	Iodine, mcg	139 49.6
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	1.05	Selenium, mcg	282 10.1
L-Tryptophan	0.56	0.20	Sodium, mg	280 100
L-Tyrosine	Nil Added	Nil Added	Potassium, mg	445 159
L-Valine	1.96	0.70	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, Citric Acid Esters of Mono- and Diglycerides (CITREM), 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 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)



## 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 individuals over 1 year of age.

### 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 help prevent catabolism
- Complete with essential vitamins and minerals
- Available in Unflavored and Vanilla flavor
- Osmolality: 1040 mOsm/kg H<sub>2</sub>O based on a 1 to 3.5 dilution
- 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.

### 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 (14.1 oz)	1540
59293 - Vanilla	49735-0192-93	B4157 or B4162	6 X 400 g (14.1 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 100 g of powder		Vitamins	Per 100 g of powder	
	Per 100 g of powder	Per 10 g Protein Equivalent		Per 100 g of powder	Per 10 g Protein Equivalent
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)	275 (18.5)	22.9 (15.4)
Saturated, g	1.9	1.6	Vitamin K, mcg	92.2	76.8
Monounsaturated, g	10.8	9.0	Thiamine, mg	1.5	1.3
Polyunsaturated, g	3.5	2.9	Riboflavin, mg	1.5	1.3
Linoleic Acid, mg	2786	2322	Vitamin B <sub>6</sub> , mg	1.5	1.3
Carbohydrate, g	46.0	38.3	Vitamin B <sub>12</sub> , mcg	3.8	3.2
<b>Amino Acids, g</b>			Niacin, mg	9.6	8.0
L-Alanine	Nil Added	Nil Added	Folic Acid, mcg	461	384
L-Arginine	Nil Added	Nil Added	Pantothenic Acid, mg	6.1	5.1
L-Asparagine	Nil Added	Nil Added	Biotin, mcg	34.6	28.8
L-Aspartic Acid	Nil Added	Nil Added	Vitamin C, mg	120	100
L-Citrulline	Nil Added	Nil Added	Choline, mg	480	400
L-Cystine	0.43	0.36	Inositol, mg	108	90
L-Glutamic Acid	Nil Added	Nil Added	<b>Minerals</b>		
L-Glutamine	Nil Added	Nil Added	Calcium, mg	1555	1296
Glycine	Nil Added	Nil Added	Phosphorus, mg	1555	1296
L-Histidine	0.51	0.43	Magnesium, mg	246	205
L-Isoleucine	2.26	1.88	Iron, mg	26.9	22.4
L-Leucine	3.82	3.18	Zinc, mg	21.1	17.6
L-Lysine	1.92	1.60	Manganese, mg	3.6	3.0
L-Methionine	0.40	0.33	Copper, mcg	1900	1583
L-Phenylalanine	0.67	0.56	Iodine, mcg	276	230
L-Proline	Nil Added	Nil Added	Molybdenum, mcg	63.4	52.8
L-Serine	Nil Added	Nil Added	Chromium, mcg	41.3	34.4
L-Threonine	1.59	1.33	Selenium, mcg	76.8	64.0
L-Tryptophan	0.48	0.40	Sodium, mg	1114	928
L-Tyrosine	1.23	1.03	Potassium, mg	1613	1344
L-Valine	2.29	1.91	Chloride, mg	864	720
L-Carnitine	0.01	0.01			
Taurine	0.07	0.06			

### 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 (CITREM), 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, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Sodium Selenite, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**Contains: Coconut Oil.**

**Vanilla:** Corn Syrup Solids, Refined Vegetable Oils (High Oleic Safflower, Canola, Fractionated Coconut), Sugar, L-Leucine, Sodium Phosphate Dibasic, Tripotassium Citrate, Tricalcium Citrate, Artificial Flavor, 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 (CITREM), 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, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Sodium Selenite, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

**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. sulfite oxidase deficiency).

### Main Features:

- Methionine- and cystine-free powdered infant formula with iron
- Includes DHA & ARA
- Contains a prebiotic blend of galacto-oligosaccharides (GOS) and fructo-oligosaccharides (FOS)
- 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 (PE) per 100 g of powder
- Unflavored powder
- Osmolality (at 0.7 kcal/mL): 380 mOsm/kg H<sub>2</sub>O based on dilution of 5 g powder (1 unpacked level scoop) to 1 fl oz (30 mL) water
- Displacement: 0.75 mL/g

### Indications:

- Sulfite oxidase deficiency (SOD)
- 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 (800-365-7354).

### Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
151624	49735-0102-12	B4162	3 x 400 g (14.1 oz)	1892

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

### Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein	Vitamins	Per 100 g	Per 10 g Protein
	of powder	Equivalent		of powder	Equivalent
Calories	466	345	Vitamin A, IU (mcg RE)	1,305 (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	14.2	Vitamin E, IU (mg α-TE)	10.9 (73)	8.1 (5.4)
Saturated, g	7.9	5.9	Vitamin K, mcg	48.5	35.9
Monounsaturated, g	9.8	7.3	Thiamine, mg	500	370
Polyunsaturated, g	5.3	3.9	Riboflavin, mg	500	370
DHA, mg	60.0	44.4	Vitamin B <sub>6</sub> , mg	500	370
ARA, mg	120	88.9	Vitamin B <sub>12</sub> , mcg	13	0.96
Linoleic Acid, mg	3,500	2,593	Niacin, mg	2,200	1,628
Carbohydrate, g	53.7	0.37	Folic Acid, mcg	55.0	40.7
Fiber, g	3.5	2.6	Pantothenic Acid, mg	2,800	2,074
GOS, g	3.0	2.2	Biotin, mcg	182	135
FOS, g	0.5	0.37	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	113	0.84	<b>Minerals</b>		
L-Cystine	Nil Added	Nil Added	Calcium, mg	371	275
L-Glutamine	0.13	0.10	Phosphorus, mg	270	200
Glycine	0.99	0.73	Magnesium, mg	52.5	38.9
L-Histidine	0.65	0.48	Iron, mg	7.3	5.4
L-Isoleucine	0.99	0.73	Zinc, mg	5.2	3.9
L-Leucine	1.7	1.26	Manganese, mg	39.0	28.9
L-Lysine	116	0.86	Copper, mcg	390	289
L-Methionine	Nil Added	Nil Added	Iodine, mcg	82.5	61.1
L-Phenylalanine	0.76	0.56	Molybdenum, mcg	10.9	8.1
L-Proline	1.21	0.90	Chromium, mcg	12.5	9.3
L-Serine	0.74	0.55	Selenium, mcg	14.1	10.4
L-Threonine	0.84	0.62	Sodium, mg	171	127
L-Tryptophan	0.33	0.24	Potassium, mg	454	336
L-Tyrosine	0.76	0.56	Chloride, mg	321	238
L-Valine	1.09	0.81			
L-Carnitine	0.01	0.007			
Taurine	0.03	0.02			

### Ingredients:

**Unflavored:** Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Soybean, Coconut, and Canola Oils), Galacto-Oligosaccharides (Milk), L-Lysine, L-Glutamate, L-Leucine, L-Proline, L-Arginine, Tricalcium Phosphate, L-Valine, L-Aspartic Acid, Glycine, Citric Acid Esters of Mono- and Diglycerides, L-Isoleucine, L-Threonine, L-Phenylalanine, L-Tyrosine, L-Serine, L-Histidine, L-Alanine, Potassium Chloride, Fructooligosaccharides (FOS), Tripotassium Citrate, Sodium Phosphate Dibasic, Magnesium Acetate, L-Tryptophan, *M. Alpina* Oil\*, Choline Bitartrate, *C. Cohnii* Oil\*\*, L-Glutamine, Sodium Chloride, L-Ascorbic Acid, M-Inositol, L-Glutamic Acid, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Calcium D-Pantothenate, Niacinamide, Ascorbyl Palmitate, Cupric Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Mixed Tocopherols, Potassium Iodide, Manganese Sulfate, Folic Acid, Chromium Chloride, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Vitamin D<sub>3</sub>, Cyanocobalamin.

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

\*A source of arachidonic acid (ARA)

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

## Additional Ingredient Lists

### PhenylAde<sup>®</sup> Essential Drink Mix

**Orange Creme:** Corn Syrup Solids, Sugar, L-Asparagine Monohydrate, L-Glutamine, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), Natural and Artificial Flavors, L-Tyrosine, L-Lysine Acetate, Tricalcium Phosphate, High Oleic Sunflower Oil, L-Alanine, L-Leucine, L-Serine, and contains less than 2% of the following: Fructooligosaccharides, Inulin, Corn Starch, Microcrystalline Cellulose, Gum Arabic, Soy Fiber, L-Arginine, Canola Oil, Sunflower Oil, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, L-Threonine, L-Isoleucine, Potassium Chloride, Citric Acid, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Schizochytrium sp. Oil\*, Citric Acid Esters of Mono- and Diglycerides, Magnesium Oxide, L-Cystine, Modified Corn Starch, Silicon dioxide, Sodium L-Ascorbate, L-Ascorbic Acid, Taurine, Inositol, Ferric Sulfate, Vitamin E Acetate, L-Carnitine, Sunflower Lecithin, Beet Juice Concentrate (For Color), Niacinamide, Ascorbyl Palmitate, Zinc Sulfate, Copper Sulfate, Vitamin K1, Vitamin D<sub>3</sub>, Vitamin A Acetate, Calcium D-Pantothenate, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-carotene, Pyridoxine Hydrochloride, Riboflavin, Thiamine Hydrochloride, Potassium Iodide, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Chromium Chloride, Sodium Molybdate.

**Strawberry:** Corn Syrup Solids, Sugar, L-Asparagine Monohydrate, L-Glutamine, Medium Chain Triglycerides (Coconut and/or Palm Kernel Oil), L-Tyrosine, L-Lysine Acetate, Tricalcium Phosphate, High Oleic Sunflower Oil, Natural and Artificial Flavors, L-Alanine, L-Leucine, L-Serine, and contains 2% or less of the following: Fructooligosaccharides, Inulin, Corn Starch, Microcrystalline Cellulose, Gum Arabic, Soy Fiber, L-Arginine, Canola Oil, Sunflower Oil, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, L-Threonine, L-Isoleucine, Potassium Chloride, Citric Acid, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Schizochytrium sp. Oil\*, Citric Acid Esters of Mono- and Diglycerides, Magnesium Oxide, L-Cystine, Modified Corn Starch, Silicon Dioxide, Sodium L-Ascorbate, L-Ascorbic Acid, Taurine, Inositol, Ferrous Sulfate, Vitamin E Acetate, L-Carnitine, Sunflower Lecithin, Niacinamide, Ascorbyl Palmitate, Zinc Sulfate, Copper Sulfate, Vitamin K<sub>1</sub>, Vitamin D<sub>3</sub>, Vitamin A Acetate, Calcium D-Pantothenate, Beet Juice Concentrate (For Color), Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Pyridoxine Hydrochloride, Riboflavin, Thiamine Hydrochloride, Potassium Iodide, Sodium Selenite, Folic Acid, Vitamin B<sub>12</sub>, Contains: Soy. \*With docosahexaenoic acid (DHA) and eicosapentaenoic acid (EPA)

## 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
<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

Measure	g Product	g Protein Equivalent
<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>		
1/4 cup	40	10
<b>PhenylAde GMP Drink Mix</b>		
1/4 cup	33.3	10
<b>PhenylAde GMP Mix-In</b>		
2 Tbsp + 1 tsp	12.5	10
<b>PhenylAde GMP ULTRA</b>		
1 pouch	33.4	20
<b>PhenylAde 60 Drink Mix</b>		
4 tsp	17	10
<b>PhenylAde MTE Amino Acid Blend</b>		
1 Tbsp	12.8	10
<b>GlutarAde Essential</b>		
1/4 cup	40	10
<b>Complex MSD Essential</b>		
1/4 cup	40	10
<b>Complex MSD Amino Acid Blend</b>		
1 Tbsp	12.4	10
<b>Maxamum Range</b>		
1 Tbsp	9	3.6
1 cup	145	58

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 oligosaccharides.

### Administration:

- Must be consumed in conjunction with a whole protein source (eg. 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 water that has been boiled. 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)

\*Ask your baby's health care team if you need to use cooled, boiled water for mixing and if you need to boil (sterilize) bottles, nipples and rings before use.

**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 inborn error of metabolism. Not intended as the sole source of nutrition. For oral and tube feeding. Not for parenteral use.

### Storage:

- Store unopened cans in a cool, dry place. Avoid extreme temperatures. Once opened, use contents within 2 weeks. Replace lid firmly after use.

## PKU Periflex® Junior Plus & Anamix® Next

Medical foods for the dietary management of metabolic disorders in individuals over 1 year of age.

### Administration:

- 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 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).

Freshly prepared formula is best. Refrigerate pre-mixed formula immediately and use within 24 hours of mixing. Shake immediately before use.

Dilution (kcal/mL)	Amount of Powder	Water Added	Approx. Final Volume
0.6	18 g (approx 2 scoops)	3.5 fl oz (100 mL)	3.8 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)	4.2 fl oz (126 mL)

### Precautions:

- Must only be given under strict medical supervision to individuals with proven inborn errors of metabolism. Not intended for infants. Not intended as sole source of nutrition. For oral and tube feeding. Not for parenteral use.

### Storage:

- Store unopened can in a cool, dry place. Do not store at extreme temperatures. Once opened, use contents within 2 weeks. Replace lid firmly after use.

## Periflex® Advance

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:

- 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.
- Periflex Advance is intended are intended for 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 table that follows. Best served chilled.
- Periflex tastes great when combined with 1 fl oz (30 mL) of water for every 5 to 6 grams of powder.
- 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 Periflex Advance

Volume of Water	Amount of Powder	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

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.

### Precautions:

- Must only be given under strict medical supervision to individuals with proven phenylketonuria. Not intended for infants. Not intended as the sole source of nutrition. For oral and tube feeding. Not for parenteral use.

### Storage:

- Store unopened cans of Periflex Advance in a cool, dry place. Do not store at extreme temperatures. Once opened, use contents within 1 month. Replace lid firmly after use.

## 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 medical food 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	Amount of Powder	Volume of Water	Approx. PE
1 to 7	35 g	245 mL (approx. 8 fl oz)	14 g
1 to 5	35 g	175 mL (approx. 6 fl oz)	14 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 inborn errors of metabolism. Not intended for children under one year of age. Not suitable as the sole source of nutrition. For oral and tube feeding. Not for parenteral use.

### Storage:

- Store unopened cans in a cool, dry place. Do not store at extreme temperatures. Once opened, use contents of can within 1 month. Replace lid firmly after use.

## PhenylAde®

Medical foods for the dietary management of phenylketonuria (PKU) in 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 phenylalanine and general nutrition requirements.

### Mixing Instructions:

1. Add prescribed amount of PhenylAde powder to cold water, shake or stir until completely mixed together.
2. Dilution may be adjusted to taste. See recommended dilutions below for a guideline.
3. Once prepared, best served immediately.
4. Do not heat, bake or add to food or beverages above 130°F.

### Recommended Dilution:

- **PhenylAde Essential Drink Mix**  
Add 40 g (approx. 1/4 cup, level and unpacked) to approx. 7 fl oz (210 mL) of cold water.
- **PhenylAde GMP Drink Mix**  
Add 33.3 g (approx. 1/4 cup, level and unpacked) to approx. 5 fl oz. (150 mL) of cold water.
- **PhenylAde GMP READY**  
Shake well before use. Best served chilled or at room temperature.

- **PhenylAde GMP Mix-In**  
Add 12.5 g (approx. 2 Tablespoons + 1 teaspoon, level and unpacked or one pouch) to approx. 6-8 fl oz (180-240 mL) of cold water or a flavored (protein-free) beverage.
- **PhenylAde GMP ULTRA**  
Add contents of 1 pouch (33.4 g) to approx. 6 fl oz (180 mL) of cold water.
- **PhenylAde 60 Drink Mix**  
Add 16.7 g (approx. 4 teaspoons, level and unpacked) to approx 3 fl oz (90 mL) of cold water.
- **PhenylAde MTE Amino Acid Blend**  
Add one serving (approx. 1 Tablespoon) 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 only be used under medical supervision. For oral or tube feeding. Not for parenteral use. Not suitable as a sole source of nutrition. Only suitable for individuals over 1 year of age with proven phenylketonuria (PKU).
- PhenylAde GMP products are not suitable for individuals with a dairy or milk allergy.

### Storage:

- Store unopened cans in a cool, dry place away from sunlight. Avoid extreme temperatures. Once a can is opened, reseal with lid provided and use within one month.

## PhenylAde® PheBLOC™ LNAA

Medical food containing essential amino acids (large neutral amino acids and lysine) except phenylalanine. For the dietary management of phenylketonuria (PKU) in individuals over 12 years 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 phenylalanine and general nutrition requirements.
- Intake of the product is dependent on the age, bodyweight and medical condition of the individual.

### Mixing Instructions:

#### PhenylAde PheBLOC LNAA powder

- Add contents of 1 pouch (3 g) to ~½ cup of any semi-solid food (i.e., applesauce, mashed potatoes, pudding, sorbet, etc).

Visit [NutritionalLearningCenter.com](https://www.nutritionallearningcenter.com) for guidelines on the usage of PhenylAde PheBLOC LNAA in the dietary management of PKU

### Precautions:

- Must only be given under strict medical supervision to individuals with proven phenylketonuria. Suitable for individuals over 12 years of age. Not suitable as the sole source of nutrition. For oral use. 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 pouches in a cool, dry place.

## Lophlex® LQ

Low volume medical foods for the dietary management of metabolic disorders in 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 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 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 LQ should be divided into equal portions and distributed throughout the day.

### Mixing Instructions:

#### Lophlex LQ

- Shake vigorously before use. Tastes best when served chilled.

### Precautions:

- Must only be used under strict medical supervision in individuals with proven inborn errors of metabolism. Not intended as a sole source of nutrition. For oral and tube feeding. Not for parenteral use.

### Storage:

- Store in a cool, dry place, away from sunlight.

## Complex MSD®: 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 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 branched-chain amino acid and general nutrition requirements.

### Mixing Instructions:

- Add prescribed amount of Complex MSD powder to cold water, shake or stir until completely mixed together.
- Dilution may be adjusted to taste. See guidelines below.
- Once prepared, best served immediately.
- Do not heat, bake or add to food or beverages above 130°F.

### Recommended Dilution:

#### Complex MSD Essential

- Add 40 g powder (approx. 1/4 cup, level and unpacked) to approx. 7 fl oz (210 mL) of cold water. Dilution may be adjusted to taste.

#### Complex MSD Amino Acid Blend

- Add contents of 12.4 g (approx. 1 Tbsp, level and unpacked) to single portion of low protein food, beverage or other MSUD formula. Appropriate serving size must be established by a medical professional and consumed to meet prescribed protein equivalent requirements. Not intended to be added to plain water.

### Precautions:

- Must only be given under strict medical supervision to individuals with proven maple syrup urine disease. Not intended for infants. Not intended as the sole source of nutrition. For oral and tube feeding. Not for parenteral use.

### Storage:

- Store unopened cans in a cool, dry place. Do not store at extreme temperatures. Once opened, use contents within 1 month. Replace lid firmly after use.

## GlutarAde®: Essential

Medical food for the dietary management of glutaric aciduria type 1 (GA-1) or pyridoxine-dependent epilepsy (PDE) in 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 the lysine and general nutrition 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 guidelines below.
- Once prepared, best served immediately.
- Do not heat, bake or add to food or beverages above 130°F.

### Recommended Dilution

#### GlutarAde Essential

- Add 40 g powder (approx. 1/4 cup, level and unpacked) to approx. 7 fl oz (210 mL) of cold water. Dilution may be adjusted to taste.

### Precautions:

- Must only be given under strict medical supervision to individuals with proven glutaric aciduria type 1 (GA-1) or pyridoxine-dependent epilepsy (PDE). Not intended for infants. Not intended as the sole source of nutrition. For oral and tube feeding. Not for parenteral use.

### Storage:

- Store unopened cans in a cool, dry place. Do not store at extreme temperatures. Once opened, use contents within 1 month. Replace lid firmly after use.

## 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.
- Intake to be determined by a medical professional and is dependent on age, body weight and medical condition of the individual. For accuracy, weigh on a gram scale. Daily intake should be divided into equal portions and distributed throughout the day.
- Suitable 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 greater accuracy use a gram scale.
- It is recommended that UCD Anamix Junior be prepared at a 1 to 3.5 dilution. This 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 of approx. 27 kcal/fl oz (0.9 kcal/mL)

Amount of Powder	Water Added	Final Volume	Approx. PE
30 g (approx. 6 scoops)	3.5 fl oz (105 mL)	4.2 fl oz (126 mL)	3.6 g
50 g (approx. 10 scoops)	5.8 fl oz (175 mL)	7 fl oz (210 mL)	6 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 a sole source of nutrition. For oral and tube feeding. Not for parenteral use.

### Storage:

- Store unopened cans in a cool, dry place. Do not store at extreme temperatures. Once opened, use contents within 1 month. Replace lid firmly after use.





## MEDICAL KETOGENIC DIET



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



## 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 medical 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): 160 mOsm/kg H<sub>2</sub>O
- Energy distribution:
 

Protein	8.7%
Carbohydrate	4.1%
Fat (LCT 100%)	87.2%
- Displacement 1 mL/g

### Indications:

- Refractory/intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
  - Glucose transporter type-1 deficiency syndrome (Glut1DS)
  - 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
77155	49735-0717-55	B4154, B4157, B4162	6 x 300 g (11 oz)	2133

WIC<sup>1</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	711	100	Calcium, mg	729	103
Protein, g	15.4	2.2	Phosphorus, mg	492	69.2
Carbohydrate, g	72	1.0	Magnesium, mg	70.3	9.9
Fat, g	68.6	9.7	Iron, mg	10.9	1.5
Saturated, g	26.6	3.7	Zinc, mg	7.7	1.1
Monounsaturated, g	24.0	3.4	Manganese, mg	0.13	0.02
Polyunsaturated, g	18.0	2.5	Copper, mcg	460	64.7
Linoleic Acid, mg	15515	2183	Iodine, mcg	93.5	13.2
α-Linolenic Acid, mg	1284	181	Molybdenum, mcg	31.4	4.4
DHA, mg	180	25.0	Chromium, mcg	26.1	3.7
ARA, mg	180	25.0	Selenium, mcg	24.3	3.4
<b>Vitamins</b>			Sodium, mg	320	45.0
Vitamin A, IU (mcg RE)	1166 (350)	164 (49.3)	Potassium, mg	828	117
Vitamin D <sub>3</sub> , IU (mcg)	613 (15.3)	86.3 (2.2)	Chloride, mg	491	69.1
Vitamin E, IU (mg α-TE)	12.1 (8.1)	1.7 (1.1)	L-Carnitine, mg	43.9	6.2
Vitamin K, mcg	49.8	7.0	Taurine, mg	43.8	6.2
Thiamine, mg	0.64	0.09			
Riboflavin, mg	0.64	0.09			
Vitamin B <sub>6</sub> , mg	0.64	0.09			
Vitamin B <sub>12</sub> , mcg	1.3	0.18			
Niacin, mg	4.5	0.63			
Folic Acid, mcg	95.8	13.5			
Pantothenic Acid, mg	5.4	0.76			
Biotin, mcg	12.8	1.8			
Vitamin C, mg	59.0	8.3			
Choline, mg	202	28.5			
Inositol, mg	140	19.7			

\*Standard Dilution = 1 kcal/mL

### Ingredients:

Refined Vegetable Oils (Palm, Soy, High Oleic Sunflower), Casein (Milk), Lactose (Milk), Whey (Milk), Corn Syrup Solids, Tricalcium Phosphate, Potassium Citrate, Potassium Chloride, Choline Bitartrate, Calcium Phosphate Dibasic, Glycine, *M. alpina* Oil\*, *C. cohnii* Oil\*\*, Magnesium Chloride, L-Cystine, L-Leucine, Sodium Caseinate (Milk), L-Tryptophan, M-Inositol, Magnesium Acetate, L-Valine, Sodium Ascorbate, L-Carnitine, Taurine, Ferrous Sulfate, Zinc Sulfate, Mono- and Diglycerides, Calcium D-Pantothenate, Niacinamide, DL-Alpha Tocopheryl Acetate, Copper Sulfate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Manganese Sulfate, Mixed Tocopherols, Ascorbyl Palmitate, Chromium Chloride, Folic Acid, Potassium Iodide, Sodium Molybdate, Sodium Selenite, Cholecalciferol, D-Biotin, Cyanocobalamin

**Contains: Milk, Soy Oil**

\*Source of Arachidonic Acid (ARA)

\*\* Source of Docosahexaenoic Acid (DHA)

Access our Clinician Resources, including DRI Calculator here: <http://bit.ly/NutriciaHCPTools>



## 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 medical 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): 135 mOsm/kg H<sub>2</sub>O
- Energy distribution:
 

Protein	8.2%
Carbohydrate	1.8%
Fiber	1.5%
Fat (LCT 100%)	88.5%
- Displacement 1 mL/g

### Indications:

- Refractory/intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
  - Glucose transporter type-1 deficiency syndrome (Glut1DS)
  - 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, B4157, B4162	6 x 300 g (11 oz)	2109

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	703	100	Calcium, mg	704	100
Protein, g	14.3	2.0	Phosphorus, mg	416	59.1
Carbohydrate, g	8.2	1.2	Magnesium, mg	96.3	13.7
Fiber, g	5.4	0.75	Iron, mg	72	10.2
Soluble, g	3.1	0.45	Zinc, mg	3.96	0.56
Insoluble, g	2.3	0.30	Manganese, mg	0.40	0.06
Fat, g	69.2	9.8	Copper, mcg	495	70.3
Saturated, g	26.1	3.8	Iodine, mcg	77.6	11
Monounsaturated, g	22.7	3.2	Molybdenum, mcg	28.5	4.1
Polyunsaturated, g	20.4	2.8	Chromium, mcg	14.7	2.1
Linoleic Acid, mg	16300	2300	Selenium, mcg	26.9	3.8
α-Linolenic Acid, mg	1430	241	Sodium, mg	476	67.6
DHA, mg	110	15.6	Potassium, mg	770	109
ARA, mg	120	17.0	Chloride, mg	720	102
<b>Vitamins</b>			L-Carnitine, mg	40.5	5.75
Vitamin A, IU (mcg RE)	960 (288)	136 (40.9)	Taurine, mg	29.7	4.2
Vitamin D <sub>3</sub> , IU (mcg)	378 (9.5)	53.7 (13)			
Vitamin E, IU (mg α-TE)	15.7 (10.5)	2.2 (1.5)			
Vitamin K, mcg	46.2	6.57			
Thiamin, mg	0.63	0.09			
Riboflavin, mg	0.78	0.11			
Vitamin B <sub>6</sub> , mg	0.78	0.11			
Vitamin B <sub>12</sub> , mcg	1.3	0.19			
Niacin, mg	4.4	0.63			
Folic Acid, mcg	104	14.8			
Pantothenic Acid, mg	2.6	0.37			
Biotin, mcg	172	2.4			
Vitamin C, mg	54.0	7.76			
Choline, mg	292	41.5			
Inositol, mg	19.9	2.8			

\* Standard Dilution = 1 kcal/mL

Fiber is subtracted from total carbohydrate when 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<sup>§</sup>, 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

Access our Clinician Resources, including DRI Calculator here:  
<http://bit.ly/NutriciaHCPTools>



## KetoCal® 4:1 LQ (Unflavored and Vanilla)

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 medical 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 H <sub>2</sub> O
Unflavored	280 mOsm/kg H <sub>2</sub> O
- 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/intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
  - Glucose transporter type-1 deficiency syndrome (Glut1DS)
  - 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 Carton
113354 - Vanilla	49735-0187-96	B4154, B4157 B4162	27 x 237 mL (8 fl oz)	356
113357 - Unflavored	49735-0130-54	B4154, B4157 B4162	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 Carton (237 mL)	Minerals	Per 100 mL	Per Carton (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	12	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	103	244
DHA, mg	55.0	131	Potassium, mg	165	391
ARA, mg	55.0	131	Chloride, mg	155	367
			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 (15)	5.5 (3.6)			
Vitamin K, mcg	5.6	13.3			
Thiamine, mg	0.19	0.45			
Riboflavin, mg	0.15	0.36			
Vitamin B <sub>6</sub> , mg	0.15	0.36			
Vitamin B <sub>12</sub> , 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	515	122			
Inositol, mg	4.1	9.7			

Fiber is subtracted from total carbohydrate when 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, Thiamine 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 D<sub>3</sub>, Cyanocobalamin.

**Contains: Milk, Soy**

**Unflavored** version also contains: Sugar.

**Vanilla** flavored version also contains: Artificial Flavor, Sugar, Artificial Sweetener: Sucralose.

\* A Source of Arachidonic Acid (ARA)

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

Access our Clinician Resources, including DRI Calculator here:

<http://bit.ly/NutriciaHCPTools>



## KetoCal® 2.5:1 LQ (Vanilla)

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 medical ketogenic diet is indicated. Designed for individuals over 8 years of age and older. 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 15 kcal/mL): 347 mOsm/kg H<sub>2</sub>O
- Energy distribution:
 

Protein	12%
Carbohydrate	2.9%
Fiber	15%
Fat (MCT 25% LCT 75%)	84%
- Free water 76.7%
- Density 1.02 g/mL

### Indications:

- Refractory/intractable epilepsy
- Other epilepsy-related conditions where the ketogenic diet is indicated, including:
  - Glucose transporter type-1 deficiency syndrome (Glut1DS)
  - 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 Carton
137246	49735-01-7246	B4154, B4157, B4162	27 x 237 mL (8fl oz)	363

For more reimbursement information see *Resources*.

### Nutrition Information:

Nutrients	Per 100 mL	Per Carton (237 mL)	Minerals	Per 100 mL	Per Carton (237 mL)
Calories	153	363	Calcium, mg	115	273
Protein, g	4.5	107	Phosphorus, mg	90.0	213
Carbohydrate, g	2.2	52	Magnesium, mg	26.0	616
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
<b>Vitamins</b>			Chloride, mg	207	491
Vitamin A, IU (mcg RE)	300 (90.0)	710 (213)	L-Carnitine, mg	8.3	20.0
Vitamin D <sub>3</sub> , IU (mcg)	92.0 (2.3)	218 (5.5)	Taurine, mg	6.3	14.9
Vitamin E, IU (mg α-TE)	5.9 (4.0)	14.0 (9.5)			
Vitamin K <sub>1</sub> , mcg	7.8	18.5			
Thiamine, 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 subtracted from total carbohydrate when 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	85 mOsm/kg
24 kcal/fl oz	11.4 g	89 mL	100 mL	105 mOsm/kg
30 kcal/fl oz	14.2 g	86 mL	100 mL	135 mOsm/kg
45 kcal/fl oz	21.3 g	79 mL	100 mL	220 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	9.3 g	90 mL	100 mL	100 mOsm/kg
24 kcal/fl oz	11.3 g	89 mL	100 mL	120 mOsm/kg
30 kcal/fl oz	14.1 g	86 mL	100 mL	150 mOsm/kg
45 kcal/fl oz	21.1 g	79 mL	100 mL	160 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	
		Cans/mo	Cases/mo	Cans/mo	Cases/mo	Cartons/mo	Cases/mo	Cartons/mo	Cases/mo
600	18000	9	2	9	2	51	2	50	2
700	21000	10	2	10	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	17	3	102	4	99	4
1300	39000	19	4	19	4	110	5	107	4
1400	42000	20	4	20	4	118	5	116	5
1500	45000	22	4	21	4	127	5	124	5
1600	48000	23	4	23	4	135	5	132	5
1700	51000	25	5	24	5	144	6	140	6
1800	54000	26	5	26	5	152	6	149	6
1900	57000	28	5	27	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:

- **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.





PRO-STAT®



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



## Pro-Stat®

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

Pro-Stat contains 0 % fruit juice.

### Main Features:

- Clinically supported in 3 published trials to: manage wounds (1 study)<sup>1</sup>, improve anabolism (1 study)<sup>2</sup>, preserve lean body mass (1 study)<sup>3</sup>
- Nutrient dense, providing 15 g of protein and 100 calories per 1 fl oz
- 0 grams of total sugar and 0 mg of phosphorus per serving
- Hydrolyzed for rapid absorption & efficient utilization<sup>4</sup>
- Pro-Stat Peach (with fiber) also provides 3 g prebiotic fiber per 1 fl oz
- Available in 5 great-tasting flavors
- Lactose-, gluten-, and soy-free
- Kosher
- For oral and enteral use
- IDDSI\* level 3 (moderately thick)

1. Lee SK, et al. Adv Skin Wound Care. 2006;19:92-6.  
 2. Sundell MB, et al. J Ren Nutr. 2009;19:412-21.  
 3. Hays NP, et al. J Am Diet Assoc. 2009;109:1082-7.  
 4. Koopman R, et al. Am J Clin Nutr. 2009;90:106-15.

\*International Dysphagia Diet Standardisation Initiative

### Indications:

- Increased protein needs in low volume related to:
  - Pressure injuries
  - Wounds (diabetic, venous, surgical, burns)
  - Unintentional muscle loss
  - Protein-energy malnutrition (eg. due to cancer)
  - Low serum proteins
  - Sarcopenia
  - Dialysis
  - Fluid restriction

### Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Unit
78344 - Wild Cherry Punch (bottle)	26974-0410-07	B4155	6 x 30 fl oz	3000
78349 - Citrus Splash (bottle)	26974-0300-64	B4155	6 x 30 fl oz	3000
78350 - Vanilla (bottle)	26974-0410-40	B4155	6 x 30 fl oz	3000
78385 - Grape (bottle)	26974-0410-50	B4155	6 x 30 fl oz	3000
188276 - Peach (with fiber) (bottle)	49735-0100-85	B4155	6 x 30 fl oz	3000
78395 - Wild Cherry Punch (unit)	26974-0410-17	B4155	96 x 1 fl oz	100
78397 - Citrus Splash (unit)	26974-0304-64	B4155	96 x 1 fl oz	100
78400 - Vanilla (unit)	26974-0410-42	B4155	96 x 1 fl oz	100
78403 - Grape (unit)	26974-0410-52	B4155	96 x 1 fl oz	100

### Nutrition Information:

WILD CHERRY PUNCH, CITRUS SPLASH, GRAPE AND VANILLA NUTRIENTS

Nutrients	Per 30 mL (2 Tbsp)	Nutrients	Per 30 mL (2 Tbsp)
Serving Size: 1 fl oz		Serving Size: 1 fl oz	
Calories	100	Calories	100
Protein, g	15	Protein, g	15
Fat, g	0	Fat, g	0
Carbohydrate, g	8	Carbohydrate, g	10
Total Sugars, g	0	Total Sugars, g	0
Fiber, g	0	Fiber, g	3
<b>Minerals</b>		<b>Minerals</b>	
Sodium, mg	55	Sodium, mg	50
Potassium, mg	20	Potassium, mg	20
Phosphorus, mg	0	Phosphorus, mg	0

PEACH (with fiber)

### Ingredients:

**Pro-Stat Wild Cherry Punch, Citrus Splash, Grape and Vanilla:** 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.

**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.

**Pro-Stat Peach (with fiber):** Hydrolyzed Collagen Protein, Water, Glycerin, Polydextrose, Fructo-oligosaccharides (FOS), Malic Acid. Contains 2 % or less: Natural Flavor, 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 needs 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 food or beverage.

### 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.
- 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® AWC (Advanced Wound Care)

A ready-to-drink concentrated liquid protein medical food providing 17 g of enzyme-hydrolyzed protein and 100 calories per 1 fl oz, with added arginine, citrulline, cystine, vitamin C and zinc.

Pro-Stat AWC contains 0 % fruit juice.

### Main Features:

- 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>1</sup>
- Provides conditionally essential amino acids needed for recovery<sup>2-7</sup>
- Lactose-, gluten-, and soy-free
- Kosher
- Available in 3 great-tasting flavors
- Available in bottles (4/case) or unit doses (96/case)
- For oral and enteral use
- IDDSI\* level 3 (moderately thick)

### Indications:

- Increased protein needs in low volume related to:
  - Stages 2 to 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
78382 - Wild Cherry Punch (bottle)	26974-0410-30	B4155	4 x 30 fl oz	3000
78383 - Citrus Splash (bottle)	26974-0410-23	B4155	4 x 30 fl oz	3000
152183 - Berry Fusion (bottle)	26974-0521-83	B4155	4 x 30 fl oz	3000
78398 - Wild Cherry Punch (unit)	26974-0410-31	B4155	96 x 1 fl oz	100
78399 - Citrus Splash (unit)	26974-0410-24	B4155	96 x 1 fl oz	100

1. Koopman R, et al. Am J Clin Nutr. 2009;90:106-15. 2. Morris Jr, SM. Annu Rev Nutr. 1992;12:81-101. 3. Curis E, et al. Amino Acids. 2005;29:177-205. 4. Wu G, et al. Biochem J. 1992;281:45-8. 5. Schwedhelm E, et al. Br J Clin Pharmacol. 2008;65:51-9. 6. Waugh WH, et al. Am J Hematol. 1999;61:216. 7. Waugh WH, et al. J Natl Med Assoc. 2001;93:363-71.

### Nutrition Information:

Nutrients	Per 30 mL (2 Tbsp)
Serving Size: 1 fl oz	
Calories	100
Protein, g	17
L-Arginine, g	3.2
Fat, g	0
Carbohydrate, g	7
Total Sugars, g	0
<b>Vitamins</b>	
Vitamin C, mg	175
<b>Minerals</b>	
Zinc, mg	10
Sodium, mg	35
Potassium, mg	20
Phosphorus, mg	50

### Ingredients:

Hydrolyzed Collagen Protein, Water, Glycerin, Malic Acid, L-Arginine. Contains 2% or less: L-Citrulline, Phosphoric Acid, Ascorbic Acid, L-Tryptophan, L-Cysteine HCL, Potassium Sorbate (to help protect flavor), Sodium Benzoate (to help protect flavor), Sucralose, Zinc Sulfate.

**Berry Fusion and 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 needs 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 food or beverage.

### 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.
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.

\*International Dysphagia Diet Standardisation Initiative



## 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.

UTI-Stat contains 2 % cranberry juice concentrate.

### Main Features:

- Clinically supported in 2 published trials to manage urinary tract infections<sup>1-2</sup>
- Low in sugar (1 g per serving)
- Lactose-, gluten-, and soy-free
- Kosher
- Available in cranberry flavor
- For oral and enteral use

### Indications:

- Dietary management of urinary tract infections
- Urinary tract health

### Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Unit
78387 - Cranberry (bottle)	26974-0410-66	B4104	4 x 30 fl oz	2100
78404 - Cranberry (unit)	26974-0410-67	B4104	96 x 1 fl oz	70

### Nutrition Information:

Nutrients	Per 30 mL (2 Tbsp)
Serving Size: 1 fl oz	
Calories	70*
Sugar, g	1
<b>Minerals</b>	
Sodium, mg	15
Potassium, mg	20
Phosphorus, mg	0

*Proprietary Blend (Cranberry Concentrate, Ascorbic Acid, D-Mannose, FOS, Bromelain)*

*\*Glycerin provides a source of calories*

### 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 food or 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. Efras M, et al. Urology. 2010;76:841-5.





## 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 powdered medical food, low in fat, high in medium chain triglycerides (MCT). For supplemental use in 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:

Dilution

0.74 kcal/mL: 240 mOsm/kg H<sub>2</sub>O

1.0 kcal/mL: 365 mOsm/kg H<sub>2</sub>O

### Indications:

- Long chain fatty acid oxidation disorders
- Hyperlipoproteinemia type 1
- Other lipid and lymphatic disorders where a low fat, high MCT diet is indicated
- Chylolthorax

### Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Can
106033	49735-0160-33	B4150, B4158, B4157, or B4162	6 x 400 g (14.1 oz)	1764

WIC: Contact your state WIC office to determine availability.

For more reimbursement information see *Resources*.

### Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal	Vitamins	Per 100 g	Per 100 kcal
Calories, kcal	441	100	Pantothenic Acid, mg	2.0	0.45
Protein, g	12.8	2.9	Biotin, mcg	14.0	3.2
Fat, g	12.9	2.9	Vitamin C, mg	53.9	12.2
MCT, g	10.9	2.5	Choline, mg	90.9	20.6
LCT, g	2.0	0.45	Inositol, mg	78.7	17.9
Linoleic acid, mg	869	197	<b>Minerals</b>		
α-Linolenic acid, mg	175	39.7	Calcium, mg	329	74.7
ARA, mg	60	14.1	Phosphorus, mg	198	44.9
DHA, mg	60	14.1	Magnesium, mg	39.6	9.0
Carbohydrate, g	68.6	15.6	Iron, mg	6.0	1.4
<b>Vitamins</b>			Zinc, mg	4.1	0.93
Vitamin A, IU (mcg RE)	1158 (348)	263 (79.1)	Manganese, mg	0.03	0.01
Vitamin D <sub>3</sub> , IU (mcg)	428 (10.7)	97.2 (2.4)	Copper, mcg	323	73.2
Vitamin E, IU (mg α-TE)	6.6 (4.4)	1.5 (1.0)	Iodine, mcg	79.6	18.1
Vitamin K, mcg	16.1	3.7	Molybdenum, mcg	216	4.9
Thiamin, mg	0.32	0.07	Chromium, mcg	8.9	2.0
Riboflavin, mg	0.47	0.11	Selenium, mcg	15.6	3.6
Vitamin B <sub>6</sub> , mg	0.40	0.09	Sodium, mg	189	42.9
Vitamin B <sub>12</sub> , mcg	0.57	0.13	Potassium, mg	357	81.2
Niacin, mg	2.7	0.61	Chloride, mg	271	61.6
Folic Acid, mcg	63.2	14.4			

### Ingredients:

Maltodextrin, Skim Milk Powder, Refined Vegetable Oil (Modified Palm Kernel and/or Coconut Oil [Medium Chain Triglycerides]), Whey Protein Concentrate (Milk), Caseinate (Milk), Refined Walnut Oil, Sodium Citrate, Corn Syrup Solids, Potassium Chloride, Calcium Carbonate, Magnesium Hydrogen Phosphate, *C. cohnii* Oil, Choline Chloride, *M. alpina* Oil, L-Valine, Inositol, L-Ascorbic Acid, Refined High Oleic Sunflower Oil, L-Tryptophan, Sodium L-Ascorbate, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Niacinamide, DL-Alpha Tocopherol, Calcium D-Pantothenate, Copper Sulfate, Pyridoxine Hydrochloride, Vitamin A Acetate, Thiamine Hydrochloride, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Manganese Sulfate, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Sodium Selenite, Cholecalciferol.

**Contains:** Milk, Walnut Oil, Coconut Oil

### Administration:

- Intake to be 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.
- For oral and tube feeding in individuals over 1 year of age.

### 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 (0.74 kcal/mL)	16.8 g (3 Scoops)	90 mL (3.3 fl oz)	100 mL (3.3 fl oz)
30 kcal/30 mL (1.0 kcal/mL)	22.7 g (4 Scoops)	80 mL (2.5 fl oz)	100 mL (3.3 fl oz)

Unpacked, level scoops are approximations only.

For accuracy, use a gram scale.

Once prepared, the formula should be stored in a refrigerator and kept no longer than 12 hours from the time of preparation. Shake or stir Monogen immediately before use.

### Precautions:

- Use under medical supervision.
- Not for parenteral use.

### Storage:

Store in a cool, dry place. Once opened, use contents within 1 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 medical 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 H<sub>2</sub>O
- 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 medical ketogenic diet
  - Long-chain fatty acid oxidation disorders
  - Chylolthorax
  - Fat malabsorption
  - Short bowel syndrome

### Ordering/Reimbursement Information:

Product Code	Reimbursement Code	HCPCS Code	Product Packaging	Calories Per Bottle
71957	49735-0195-73	B4155	4 x 250 mL (8.5 fl oz)	1125

WIC: 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	50.0	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 (CITREM), Mono- and Diglycerides, 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<sup>®</sup>

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
- Soluble in liquids and moist foods without altering taste or texture
- Milk protein free
- Osmolality (1:3 dilution): 310 mOsm/kg H<sub>2</sub>O
- 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 50% / LCT 50%)	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
49828	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
Calories	492
Protein, g	0
Fat, g	22.3
Saturated, g	13.8
Monounsaturated, g	2.5
Polyunsaturated, g	4.8
Carbohydrate, g	72.7
<b>Minerals</b>	
Sodium, mg	≤200
Potassium, mg	≤50
Chloride, mg	≤200
Calcium, mg	≤50
Phosphorus, mg	≤50

### Ingredients:

Corn Syrup Solids, Refined Vegetable Oil (Corn Oil, Non-Hydrogenated Coconut Oil, Modified Coconut and/or Palm Kernel Oil (Medium Chain Triglycerides)), Mono- and Diglycerides, Diacetyl Tartaric Acid Esters of Mono- and Diglycerides.

### Household Measures:

(all measures are unpacked)

Measure	Weight	Calories
1 Scoop	5 g	25
1 tsp	2.4 g	12
1 Tbsp	7.3 g	36
1/4 cup	28.3 g	144
1/2 cup	56.5 g	288
1 cup	117 g	576

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:

- Use under medical supervision.
- Not for parenteral use.
- Not suitable as the sole source of nutrition.

### Administration:

- For individuals 1 year and above.
- 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 recommended amount of Duocal.
2. Add powder to the required volume of liquid and/or soft food and stir continuously until the powder has dissolved. A level scoop holds approximately 5 g of powder (25 kcal).
3. Unused foods and liquids mixed with Duocal should be refrigerated and used within 24 hours. Shake or stir immediately before serving.

### Storage:

- Store unopened can in a cool, dry place. Once opened, use contents within 1 month. Replace lid firmly after use.



## 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
- Osmolality (10% solution): 104 mOsm/kg H<sub>2</sub>O
- 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
½ cup	38.7 g	148 kcal
¾ 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:

- Use under medical supervision.
- 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, use contents within 1 month. Replace lid firmly after use.



## 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 H<sub>2</sub>O
- 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
53341	49735-0133-41	B4155	6 x 200 g (7 oz)	656

WIC<sup>†</sup>: 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	0
Carbohydrate, g	0
<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	10.2
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:

- Use under medical supervision.
- Not for parenteral use.
- Not suitable for use as a sole source of nutrition.

### Administration:

- Dosage should be determined by a doctor or dietitian and is dependent on the age, body weight and medical condition of the patient.
- 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.
- 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.

### Storage:

- Store in a cool, dry place. Once opened, use within 1 month. Always replace container lid after use.



## 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 H<sub>2</sub>O
- 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
53342	49735-0133-42	B4155	6 x 200 g (7 oz)	632

WIC<sup>1</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	0
Carbohydrate, g	0
<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:

- Use under medical supervision.
- Not for parenteral use.
- Not suitable for use as a sole source of nutrition.

### Administration:

- Dosage should be determined by a doctor or dietitian and is dependent on the age, body weight and medical condition of the patient.
- 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.
- 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.

### Storage:

- Store in a cool, dry place. Once opened, use within 1 month. Always replace container lid after use.



## 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
49133	49735-0106-85	A9270	30 x 7 g	0.2

For more reimbursement information see *Resources*.

### Nutrition Information:

Nutrients	Per 7 g packet
Calories	0.20
Protein, g	0.02
Fat, g	0
Carbohydrate, g	0.04
<b>Vitamins</b>	
Vitamin A, IU (mcg RE)	2664 (800)
Vitamin D, IU (mcg)	400 (10.0)
Vitamin E, IU (mg α-TE)	13.5 (9.0)
Vitamin K, mcg	70.0
Thiamin, mg	12
Riboflavin, mg	14
Vitamin B <sub>6</sub> , mg	16
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	<14
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.

### 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.

### Precautions:

- Not for parenteral use.
- Use under medical supervision.
- Not suitable for use as a sole source of nutrition.

### Storage:

- Store in a cool, dry place. Once opened, a sachet should be stored in an airtight container and used within 2-3 days.





# RESOURCES



NUTRICIA LEARNING CENTER

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 (CPEU eligible)
- Healthcare Professional Tools
- Patient Education Tools
- Reference Library
- Case Studies

The following pages include pocket-sized versions of management flowcharts that are available free at [NutriciaLearningCenter.com](http://NutriciaLearningCenter.com)

These flowcharts illustrate options for the nutrition management of conditions where specialized medical nutrition therapy 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. Please visit our website for free electronic copies of these flowcharts.

## Reimbursement

### WIC:

<sup>†</sup>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.

Each WIC State agency determines its own allowed formula list. Contact your State WIC office to determine the availability of a specific WIC eligible Nutricia product in your area – <http://www.fns.usda.gov/wic>.

### 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.

### Other Reimbursement Information:

For additional information on reimbursement of Nutricia North America's products in the United States, please contact us at (800) 365-7354, email: [NutriciaNavigator@nutricia.com](mailto:NutriciaNavigator@nutricia.com) or visit our websites: [Nutricia-NA.com/NutriciaNavigator](http://Nutricia-NA.com/NutriciaNavigator), [Neocate.com/Reimbursement](http://Neocate.com/Reimbursement), [NutriciaMetabolics.com/Formula-Coverage](http://NutriciaMetabolics.com/Formula-Coverage) or [MyKetoCal.com/Nutricia-Navigator](http://MyKetoCal.com/Nutricia-Navigator).





**Pepticate**<sup>®</sup>

**Neocate**<sup>®</sup>

**[www.Nutricia-NA.com](http://www.Nutricia-NA.com)**

- Provides an overview of Nutricia North America.

**[www.NutriciaLearningCenter.com](http://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.Pepticate.com/HCP](http://www.Pepticate.com/HCP)**

- Clinical evidence behind Pepticate

**[www.neocate.com/for-healthcare-professionals/](http://www.neocate.com/for-healthcare-professionals/)**

- 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!

**Fortini**<sup>®</sup>



**KetoCal**<sup>®</sup>

**Pro-Stat**<sup>®</sup>

**[www.Fortini.com/HCP](http://www.Fortini.com/HCP)**

- Resources designed to help you guide infants failing to thrive to epic comebacks
- DRI Calculator to help you assess how nutrients in Fortini feedings meet your goals
- Medical education and other learning opportunities on key topics
- Clinical evidence behind Fortini
- Resources for parents and caregivers

**[www.NutriciaMetabolics.com/en-us/](http://www.NutriciaMetabolics.com/en-us/)**

- Resources for the Metabolic community, including Nutricia Metabolic product details, recipes, patient educational tools and information on product coverage & support.
- Convenient online shop including product samples.

**[www.MyKetoCal.com](http://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 medical ketogenic diet.

**[www.SpecializedAdultNutrition.com](http://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.

## Resources

<sup>§</sup>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)	α-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*</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*	<b>0.5</b>	<b>0.5</b>	<b>6</b>	<b>0.5</b>	<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*	<b>0.6</b>	<b>0.6</b>	<b>8</b>	<b>0.6</b>	<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*	<b>0.9</b>	<b>0.9</b>	<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*	<b>1.2</b>	<b>1.3</b>	<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*	<b>1.2</b>	<b>1.3</b>	<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*	<b>1.2</b>	<b>1.3</b>	<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*	<b>1.2</b>	<b>1.3</b>	<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*	<b>1.2</b>	<b>1.3</b>	<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*	<b>0.9</b>	<b>0.9</b>	<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*	<b>1.0</b>	<b>1.0</b>	<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*	<b>1.1</b>	<b>1.1</b>	<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*	<b>1.1</b>	<b>1.1</b>	<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*	<b>1.1</b>	<b>1.1</b>	<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*	<b>1.1</b>	<b>1.1</b>	<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*	<b>1.4</b>	<b>1.4</b>	<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*	<b>1.4</b>	<b>1.4</b>	<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*	<b>1.4</b>	<b>1.4</b>	<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*	<b>1.4</b>	<b>1.6</b>	<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*	<b>1.4</b>	<b>1.6</b>	<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*	<b>1.4</b>	<b>1.6</b>	<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)	Sodium (mg/d)	Potassium (mg/d)
<b>Infants</b>														
0-6 mo	200*	100*	30*	0.01*	15*	0.2*	200*	110*	0.27*	0.003*	2*	2*	110	400
7-12 mo	260*	275*	75*	0.5*	20*	5.5	220*	130*	11	0.6*	3*	3	370	860
<b>Children</b>														
1-3 y	700	460	80	0.7*	20	11*	340	90	7	12*	17	3	800	2000
4-8 y	1,000	500	130	1*	30	15*	440	90	10	15*	22	5	1000	2300
<b>Males</b>														
9-13 y	1,300	1,250	240	2*	40	25*	700	120	8	19*	34	8	1200	2500
14-18 y	1,300	1,250	410	3*	55	35*	890	150	11	2.2*	43	11	1500	3000
19-30 y	1,000	700	400	4*	55	35*	900	150	8	2.3*	45	11	1500	3400
31-50 y	1,000	700	420	4*	55	35*	900	150	8	2.3*	45	11	1500	3400
51-70 y	1,000	700	420	4*	55	30*	900	150	8	2.3*	45	11	1300	3400
>70 y	1,200	700	420	4*	55	30*	900	150	8	2.3*	45	11	1200	3400
<b>Females</b>														
9-13 y	1,300	1,250	240	2*	40	21*	700	120	8	1.6*	34	8	1200	2300
14-18 y	1,300	1,250	360	3*	55	24*	890	150	15	1.6*	43	9	1500	2300
19-30 y	1,000	700	310	3*	55	25*	900	150	18	1.8*	45	8	1500	2600
31-50 y	1,000	700	320	3*	55	25*	900	150	18	1.8*	45	8	1500	2600
51-70 y	1,200	700	320	3*	55	20*	900	150	8	1.8*	45	8	1300	2600
>70 y	1,200	700	320	3*	55	20*	900	150	8	1.8*	45	8	1200	2600
<b>Pregnancy</b>														
14-18 y	1,300	1,250	400	3*	60	29*	1,000	220	27	2.0+*	50	12	1500	2600
19-30 y	1,000	700	350	3*	60	30*	1,000	220	27	2.0+*	50	11	1500	2900
31-50 y	1,000	700	360	3*	60	30*	1,000	220	27	2.0+*	50	11	1500	2900
<b>Lactation</b>														
14-18 y	1,300	1,250	360	3*	70	44*	1,300	290	10	2.6*	50	13	1500	2500
19-30 y	1,000	700	310	3*	70	45*	1,300	290	9	2.6*	50	12	1500	2800
31-50 y	1,000	700	320	3*	70	45*	1,300	290	9	2.6*	50	12	1500	2800

## 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* ( $\alpha$ -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.





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