NUTRICIA NORTH AMERICA PRODUCT REFERENCE GUIDE

CANADA

NUTRICIA
LIFE-TRANSFORMING NUTRITION

Updated as of June 2021

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For information on Nutricia products and other helpful resources, visit **www.Nutricia.ca**.
For a complete listing of our websites, see *Resources*.

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NUTRICIA
LIFE-TRANSFORMING NUTRITION

- **Nutricia Leads the Development and Use of Advanced Medical Nutrition for Specialized Care**
- **Nutricia Products and Services Transform the Daily Lives of Millions of Infants, Children and Adults**

This guide is a convenient reference for clinicians to the full range of Nutricia North America's medical nutrition products in Canada. 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 website at **www.Nutricia.ca**. 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.

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.*

**Does not apply to Nutricia's Metabolic products.*

NUTRICIA
LIFE-TRANSFORMING NUTRITION

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Tobey
Diagnosed with
multiple food allergies

GI/FOOD ALLERGY

Neocate® DHA & ARA

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

Main Features:

- Hypoallergenic
- With DHA, ARA, and nucleotides
- 100% non-allergenic free amino acids
- Nutritionally complete
- Over 190 publications and counting support Neocate
- Kosher Pareve & Halal
- Standard dilution = 0.67 kcal/mL
- Osmolality (at 0.67 kcal/mL): 340 mOsm/kg H_2O
- Free water (at 0.67 kcal/mL): 90.3%
- Energy distribution:

Protein	11.2%
Carbohydrate	43.1%
Fat (MCT 33% / LCT 67%)	45.7%

- Displacement 0.7 mL/g

Indications:

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

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

For guidance on monitoring micronutrients, please see page 29.

Ordering Information:

Product Code	Product Packaging	Calories Per Can
127373	4 x 400 g	1932

Nutrition Information:

Nutrients	Per 100 g	Per 100 mL*
Energy, kcal (kJ)	483 (2020)	67 (279)
Protein Equivalent, g	13.5	1.9
Carbohydrate, g	52.0	7.2
Fat, g	24.5	3.4
Linoleic Acid, g	3.57	0.49
α-Linolenic Acid, mg	419	58.1
Arachidonic Acid, mg	69.3	9.6
Docosahexaenoic Acid, mg	69.3	9.6
Ash, g	3.34	0.46
Vitamins		
Vitamin A, IU	1352	187
Vitamin D_3, IU	352	48.6
Vitamin E, IU	6.8	0.94
Vitamin K, mg	0.0425	0.0059
Thiamine, mg	0.54	0.07
Riboflavin, mg	0.54	0.07
Vitamin B_6, mg	0.54	0.07
Vitamin B_{12}, mg	0.0013	0.0002
Niacin, mg	4.9	0.68
Folic Acid, mg	0.0640	0.0088
Pantothenic Acid, mg	2.9	0.40
Biotin, mg	0.0190	0.0026
Vitamin C, mg	51.6	7.1
Choline, mg	95.4	13.2
Inositol, mg	108	14.9

Minerals	Per 100 g	Per 100 mL*
Calcium, mg	561	77.4
Phosphorus, mg	397	54.8
Magnesium, mg	51.0	7.0
Iron, mg	7.3	1.0
Zinc, mg	5.3	0.73
Manganese, mg	0.20	0.0276
Copper, mg	0.41	0.0566
Iodine, mg	0.10	0.0138
Molybdenum, mg	0.0113	0.0016
Chromium, mg	0.0106	0.0015
Selenium, mg	0.0145	0.0020
Sodium, mg	189	26.1
Potassium, mg	525	72.5
Chloride, mg	386	53.3
Nucleotides, mg	23.3	3.2

* Standard Dilution = 0.67 kcal/mL

Ingredients:

Corn Syrup Solids, Refined Vegetable Oil (Modified Coconut and/or Palm Kernel Oil [Medium Chain Triglycerides], High Oleic Sunflower Oil, Sunflower Oil, Canola Oil), L-Arginine L-Aspartate, L-Leucine, L-Lysine Acetate, 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, *Mortierella alpina* Oil*, *Crypthecodinium cohnii* Oil**, Taurine, L-Carnitine, Uridine 5'-Monophosphate Disodium Salt, Cytidine 5'-Monophosphate, Inosine 5'-Monophosphate Disodium Salt, Adenosine 5'-Monophosphate, Guanosine 5'-Monophosphate Disodium Salt, Dipotassium Phosphate, Calcium Phosphate Dibasic, Sodium Chloride, Tripotassium Citrate, Tricalcium Phosphate, Magnesium Chloride, Calcium Carbonate, Tricalcium Citrate, Calcium Glycerophosphate, Choline Bitartrate, Magnesium L-Aspartate, Inositol, L-Ascorbic Acid, Ferrous Sulfate, Zinc Sulfate, Niacinamide, Calcium D-Pantothenate, DL-Alpha Tocopheryl Acetate, Ascorbyl Palmitate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Manganese Sulfate, Riboflavin, Vitamin A Acetate, DL-Alpha Tocopherol, Potassium Iodide, Mixed Tocopherols, Folic Acid, Chromium Chloride, Phylloquinone, Sodium Selenite, Sodium Molybdate, D-Biotin, Cholecalciferol, Cyanocobalamin, Citric Acid Esters Of Mono- And Diglycerides.

* A source of Arachidonic Acid (ARA)

** A source of Docosahexaenoic Acid (DHA)

Neocate® Nutra

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

Main Features:

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

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

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

Indications:

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

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
169224	4 x 400 g	1888

Nutrition Information:

Nutrients	Per 100 g	Per Suggested Serving (37 g Powder)
Energy, kcal (kJ)	472 (1978)	175 (733)
Protein Equivalent, g	8.2	3.0
Carbohydrate, g	67.4	24.9
Fat, g	18.8	7.0
Linoleic Acid, mg	3.2	1.2
Vitamins		
Vitamin A, IU	649	240
Vitamin D_3, IU	172	63.6
Vitamin E, IU	3.4	1.3
Vitamin C, mg	23.0	8.5
Thiamine, mg	0.250	0.093
Riboflavin, mg	0.250	0.093
Niacin, mg	1.1	0.40
Vitamin B_6, mg	0.250	0.093
Folic Acid, mg	0.0275	0.0102
Vitamin B_{12}, mg	0.0006	0.0002
Pantothenic Acid, mg	1.4	0.52
Vitamin K, mg	0.0185	0.0068
Biotin, mg	0.0091	0.0034
Choline, mg	45.0	16.7
Inositol, mg	49.0	18.1

Minerals	Per 100 g	Per Suggested Serving (37 g Powder)
Calcium, mg	668	247
Phosphorus, mg	340	126
Magnesium, mg	21.0	7.8
Iron, mg	5.9	2.2
Zinc, mg	4.1	1.5
Manganese, mg	0.310	0.115
Copper, mg	0.310	0.115
Iodine, mg	0.414	0.0153
Molybdenum, mg	0.0088	0.0033
Chromium, mg	0.0010	0.0004
Selenium, mg	0.0113	0.0042
Sodium, mg	38.0	14.1
Potassium, mg	<20.0	<10.0
Chloride, mg	44.0	16.3

Ingredients:

Corn Syrup Solids, Rice Starch, Refined Vegetable Oil (Non-Hydrogenated Coconut, High Oleic Sunflower, Canola, Sunflower), Sugar, Calcium Phosphate Tribasic, 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, Cholecalciferol, Cyanocobalamin.

Neocate® Junior

A nutritionally complete, powdered amino acid-based formula for special medical purpose for individuals over 1 year of age.

Main Features:

- Hypoallergenic
- Available with soluble fibre in unflavoured, vanilla, strawberry & tropical
- Available without fibre in unflavoured
- 100% non-allergenic free amino acids
- Nutritionally complete

	Unflavoured (without fibre)	Unflavoured (with fibre)	Strawberry (with fibre)	Vanilla (with fibre)	Tropical (with fibre)
Osmolality (mOsm/kg H_2O)†	600	620	610	620	670
Free water†	85.6%	84.3%	85.2%	85.2%	84.8%
Displacement, mL/g	0.69	0.74	0.70	0.70	0.70
Energy distribution:					
Protein	12.4%	12.5%	12.5%	12.5%	12.6%
Carbohydrate	42.6%	43.6%	43.6%	43.6%	45.5%
Fat (MCT 35%/LCT 65%)	45%	43.9%	43.9%	43.9%	41.9%

† Standard dilution = 1 kcal/mL

Indications:

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

Meets or exceeds 100% DRIs[§] 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

[§] See Resources section for DRIs

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

For guidance on monitoring micronutrients, please see page 29.

Ordering Information:

Product Code	Product Packaging	Calories Per Can
129778 - Unflavoured	4 x 400 g	1916
133051 - Unflavoured (with fibre)	4 x 400 g	1888
133050 - Vanilla (with fibre)	4 x 400 g	1888
169203 - Strawberry (with fibre)	4 x 400 g	1888
134057 - Tropical (with fibre)	4 x 400 g	1804

Nutrition Information:

Nutrients	Unflavoured (without fibre) Per 100 g	Unflavoured (without fibre) Per 100 mL*	Unflavoured, Vanilla, Strawberry (with fibre) Per 100 g	Unflavoured, Vanilla, Strawberry (with fibre) Per 100 mL*	Tropical (with fibre) Per 100 g	Tropical (with fibre) Per 100 mL*
Energy, kcal (kJ)	479 (2006)	100 (419)	472 (1976)	100 (419)	451 (1892)	100 (419)
Protein Equivalent, g	14.8	3.1	14.8	3.1	14.2	3.1
Carbohydrate, g	51.0	10.7	51.4†	10.9	51.4	11.4
Fibre, g	0	0	1.9	0.40	1.9	0.42
Fat, g	24.0	5.0	23.0	4.9	21.0	4.7
Linoleic Acid, g	3.9	0.82	3.8	0.79	3.4	0.76
Vitamins						
Vitamin A, IU	956	200	956	202	956	212
Vitamin D_3, IU	380	79.4	380	80.5	380	84.3
Vitamin E, IU	10.0	2.1	10.0	2.1	10.0	2.2
Vitamin C, mg	44.6	9.3	44.6	9.4	44.6	9.9
Thiamine, mg	0.48	0.10	0.48	0.10	0.48	0.11
Riboflavin, mg	0.96	0.20	0.96	0.20	0.96	0.21
Niacin, mg	4.3	0.90	4.3	0.91	4.3	0.95
Vitamin B_6, mg	0.48	0.10	0.48	0.10	0.48	0.11
Folic Acid, mg	0.1430	0.0299	0.1430	0.0303	0.1430	0.0317
Vitamin B_{12}, mg	0.0019	0.0004	0.0019	0.0004	0.0019	0.0004
Pantothenic Acid, mg	1.9	0.40	1.9	0.40	1.9	0.42
Vitamin K, mg	0.0192	0.0040	0.0192	0.0041	0.0192	0.0043
Biotin, mg	0.0144	0.0030	0.0144	0.0031	0.0144	0.0032
Choline, mg	143	29.9	143	30.3	143	31.7
Inositol, mg	105	21.9	105	22.2	105	23.3
Minerals						
Calcium, mg	565	118	565	120	565	125
Phosphorus, mg	382	79.8	382	80.9	382	84.7
Magnesium, mg	76.5	16.0	76.5	16.2	76.5	17.0
Iron, mg	7.4	1.5	7.4	1.6	7.4	1.6
Zinc, mg	4.7	0.98	4.7	1.0	4.7	1.0
Iodine, mg	0.0852	0.0178	0.0852	0.0181	0.0852	0.0189
Manganese, mg	0.620	0.130	0.620	0.131	0.620	0.137
Copper, mg	0.530	0.111	0.530	0.112	0.530	0.118
Molybdenum, mg	0.0215	0.0045	0.0215	0.0046	0.0215	0.0048
Chromium, mg	0.0180	0.0038	0.0180	0.0038	0.0180	0.0040
Selenium, mg	0.0192	0.0040	0.0192	0.0041	0.0192	0.0043
Sodium, mg	239	50.0	239	50.6	239	53.0
Potassium, mg	653	136	653	138	653	145
Chloride, mg	364	76.1	364	77.1	364	80.7

* Standard dilution = 1 kcal/mL
† For Strawberry only 51.5 g

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (Modified Palm Kernel and/or Coconut Oil (Medium Chain Triglycerides), High Oleic Sunflower Oil, Sunflower Oil, Canola Oil), L-Serine, L-Glutamine, Glycine, L-Alanine, L-Leucine, L-Lysine Acetate, L-Threonine, L-Tyrosine, L-Valine, Maltodextrin, L-Isoleucine, L-Proline, L-Cystine, L-Histidine, L-Phenylalanine, L-Methionine, L-Arginine, L-Tryptophan, Taurine, L-Carnitine, Dipotassium Phosphate, Citric Acid Esters of Mono- and Diglycerides, Tricalcium Phosphate, Tripotassium Citrate, Trisodium Citrate, Calcium Carbonate, Choline Bitartrate, Magnesium Hydrogen Phosphate, Sodium Chloride, Calcium Chloride, Magnesium Chloride, Inositol, Ascorbic Acid, Sunflower Lecithin, Ferrous Sulfate, 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, Biotin, Cholecalciferol, Cyanocobalamin.

Unflavoured with fibre also contains Fructooligosaccharide (FOS), Chicory Root Inulin.

Vanilla version also contains Fructooligosaccharide (FOS), Chicory Root Inulin, Artificial Flavour, Sucralose‡.

Strawberry version also contains Fructooligosaccharide (FOS), Chicory Root Inulin, Artificial Flavour, Citric Acid, Sucralose‡.

Tropical version also contains Fructooligosaccharide (FOS), Chicory Root Inulin, Artificial Flavour, Citric Acid, Acesulfame Potassium¥.

‡ contains sucralose 8.5 mg/100 mL at standard dilution

¥ contains acesulfame potassium 6.7 mg/100 mL at standard dilution

Please see individual product label for exact order of ingredients.

Neocate® Splash

The first and only nutritionally complete, ready-to-feed, hypoallergenic, amino acid-based formula for special medical purpose for individuals over 1 year of age.

Main Features:

- Hypoallergenic
- 100% non-allergenic free amino acids
- Nutritionally complete
- Convenient ready-to-feed 237 mL drink boxes
- Gluten- and casein-free
- 4 great-tasting flavours: Orange-Pineapple, Grape, Tropical Fruit, Unflavoured
- Energy density = 1 kcal/mL
- Energy distribution:
  Protein 12%
  Carbohydrate 42%
  Fat (MCT 35% / LCT 65%) 46%
- Osmolality (mOsm/kg H_2O):
  670 (Unflavoured)
  740 (Grape)
  790 (Orange-Pineapple, Tropical Fruit)
- Free water: 84.6%

Indications:

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

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

Meets or exceeds 100% DRIs§ 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

§ See Resources section for DRIs

Ordering Information:

Product Code	Product Packaging	Calories Per Box
111394 - Unflavoured	27 x 237 mL (8 fl oz)	237
122436 - Orange-Pineapple	27 x 237 mL (8 fl oz)	237
122435 - Grape	27 x 237 mL (8 fl oz)	237
122437 - Tropical Fruit	27 x 237 mL (8 fl oz)	237

Per drink box Per

Nutrition Information:

Nutrients	Per drink box (237 mL)	Per 100 mL
Energy, kcal (kJ)	237 (991)	100 (418)
Protein Equivalent, g	7.1	3.0
Carbohydrate, g	24.9	10.5
Fat, g	12.1	5.1
Linoleic Acid, g (unflavoured)	0.77 (0.69)	0.33 (0.29)
Vitamins		
Vitamin A, IU	474	200
Vitamin D_3, IU	190	80.0
Vitamin E, IU	5.0	2.1
Vitamin C, mg	22	9.3
Thiamine, mg	0.24	0.10
Riboflavin, mg	0.47	0.20
Niacin, mg	2.1	0.90
Vitamin B_6, mg	0.24	0.10
Folic Acid, mg	0.0709	0.0299
Vitamin B_{12}, mg	0.0009	0.0004
Pantothenic Acid, mg	0.948	0.400
Vitamin K, mg	0.0095	0.0040
Biotin, mg	0.0071	0.0030
Choline, mg	70.9	29.9
Inositol, mg	52.1	22.0

Minerals	Per drink box (237 mL)	Per 100 mL
Calcium, mg	280	118
Phosphorus, mg	190	80.0
Magnesium, mg	37.9	16.0
Iron, mg	3.6	1.5
Zinc, mg	2.3	0.98
Iodine, mg	0.0422	0.0178
Manganese, mg	0.308	0.130
Copper, mg	0.237	0.100
Molybdenum, mg	0.0107	0.0045
Chromium, mg	0.0090	0.0038
Selenium, mg	0.0095	0.0040
Sodium, mg	119	50.0
Potassium, mg	325	137
Chloride, mg	180	76.0

Ingredients:

Water, Maltodextrin, Sugar, Refined Vegetable Oils [High Oleic Sunflower Oil, Modified Palm Kernel and/or Coconut Oil (Medium Chain Triglycerides), Canola Oil], L-Arginine, L-Lysine L-Aspartate, L-Leucine, L-Phenylalanine, L-Proline, L-Valine, Glycine, L-Isoleucine, N-Acetyl L-Methionine, L-Threonine, L-Histidine, L-Serine, L-Alanine, L-Tryptophan, L-Tyrosine, L-Cystine, Taurine, L-Carnitine, [For Orange-Pineapple, Grape and Tropical Fruit only: Artificial Flavours], Calcium Glycerophosphate, Malic Acid, Microcrystalline Cellulose, Tripotassium Citrate, Diacetyl Tartaric Acid Esters of Mono- and Diglycerides, Mono- and Diglycerides, Trisodium Citrate, Potassium Chloride, Magnesium Acetate, Choline Bitartrate, Calcium Chloride, Cellulose Gum, L-Ascorbic Acid, M-Inositol, [For Orange-Pineapple and Grape only: Sucralose*], [For Tropical Fruit only: Acesulfame Potassium**], [For Orange-Pineapple, Grape and Tropical Fruit only: Ferrous Lactate], [For Unflavoured only: Ferrous Sulfate], 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, Potassium Iodide, Sodium Molybdate, Phylloquinone, D-Biotin, Cholecalciferol, Cyanocobalamin.

***Orange-Pineapple:** contains sucralose 23.6 mg/237 mL

***Grape:** contains sucralose 23.9 mg/237 mL

****Tropical Fruit:** contains acesulfame potassium 23.6 mg/237 mL

Please see individual product cases for exact labeling of ingredients.

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. Use only under medical supervision.
- All formulas can be consumed orally or tube fed. Not for parenteral use. (Neocate Nutra is a semi-solid food and is not for bottle or tube feeding.)
- Do not boil formula or use a microwave to prepare or warm formula.
- If consumed orally, formulas for beyond 1 year of age are best served chilled.
- Once formula is prepared or drink box is opened, product should be stored in a refrigerator at 2-4°C (35-40°F) 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 provided scoops should be unpacked and level. Use a scale for the most accurate results. Household measures are not recommended for measuring powdered Nutricia products.

STORAGE:

Cans: Store unopened cans at room temperature. Avoid extreme temperatures. Cover opened can with provided lid and and store in a cool, dry place (not a refrigerator). Use within one month.

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

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

DIRECTIONS FOR PREPARATION AND USE:

Refer to product labels for full preparation instructions.

Neocate DHA & ARA infant formula

1. Wash hands with soap and water.
2. Clean and sanitize working surface.
3. Sterilize bottles, nipples, caps and other equipment by placing in water which is then brought to a rolling boil for 2 minutes and cool. Store covered until ready for use.
4. Bring fresh water to a rolling boil for 2 minutes and cool. For healthy, full-term infants cool to room temperature. For low birth weight or immune-compromised infants consult your healthcare professional.
5. Add appropriate amounts of water and powder to bottle(s) - refer to product label for specific instructions and use provided scoop.
6. Cap bottle(s). Shake well for 15-20 seconds or until powder dissolves.

Neocate Junior

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

Neocate Nutra

The suggested serving is 8 scoops (37 g) of powder plus 60 mL to give a spoonable consistency. A smaller serving size can be prepared by adding 30 mL of water to 4 scoops of powder (18.5 g). For infants: Consult your baby's healthcare team about the need to use cooled, boiled water for mixing.

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

Neocate Nutra should be prepared immediately prior to feeding. The product will further thicken if refrigerated. Neocate Nutra can be added to cooked dishes. Do not add to very hot foods. Do not warm prepared product. Not suitable as a sole source of nutrition. **Not for bottle or tube feeding**.

Neocate Splash

Shake well before use.

Household Measures

Household measures vary between different versions of each formula. Contact your Nutricia representative or our Customer Service department to determine which formula version applies in your case and for household measures for that version.

Volume Prescription

Neocate DHA & ARA infant formula

Volume/ day	0.67 kcal/mL (# cans/month)	0.73 kcal/mL (# cans/month)	0.80 kcal/mL (# cans/month)	0.87 kcal/mL (# cans/month)	0.93 kcal/mL (# cans/month)	1 kcal/mL (# cans/month)
600 mL	7	7	8	9	9	10
720 mL	8	9	9	10	11	12
840 mL	9	10	11	12	13	14
960 mL	10	11	12	13	14	15
1080 mL	12	13	14	15	16	17
1.2 L	13	14	15	17	18	19
Neocate DHA & ARA Total Vol/can	2895	2640	2415	2235	2070	1935

Neocate Nutra

Servings/day	Suggested serving size - 8 scoops Nutra (175 kcal)		Half serving - 4 scoops Nutra (88 kcal)	
	10 servings/can		21 servings/can	
	(# cans/month)	(# cases/month)	(# cans/month)	(# cases/month)
1 Serving	3	1	2	1
2 Servings	6	2	3	1
3 Servings	9	3	5	2
4 Servings	12	3	6	2

Volume/day

	Neocate Junior Unflavoured (without fibre)		Neocate Junior, all other flavours		Neocate Splash	
	1 kcal/mL		1 kcal/mL		1 kcal/mL	
	(# cans/month)	(# cases/month)	(# cans/month)	(# cases/month)	(# drink boxes/month)	(# cases/month)
590 mL	10	3	10	3	76	3
710 mL	12	3	12	3	92	4
830 mL	13	4	14	4	107	4
945 mL	15	4	16	4	122	5
1 Liter	16	4	17	5	137	6
1.2 Liters	19	5	20	5	152	6

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

Neocate® DHA & ARA

Nutrient Dilution Chart (0.67 - 0.83 kcal/mL)

Nutrients per 100 mL Dilution:	0.67 kcal/mL	0.73 kcal/mL	0.80 kcal/mL	0.87 kcal/mL	0.93 kcal/mL	1 kcal/mL
Energy, kcal	66.7	73.3	80.0	86.7	93.3	100
Energy, kJ	279	307	335	362	390	418
Protein Equivalent, g	1.9	2.0	2.2	2.4	2.6	2.8
Carbohydrate, g	7.2	7.9	8.6	9.3	10.0	10.8
Fat, g	3.4	3.7	4.1	4.4	4.7	5.1
Linoleic Acid, g	0.49	0.54	0.59	0.64	0.69	0.74
ARA, mg	9.6	10.5	11.5	12.4	13.4	14.3
DHA, mg	9.6	10.5	11.5	12.4	13.4	14.3
Ash, g	0.46	0.51	0.55	0.60	0.65	0.69
Vitamins						
Vitamin A, IU	187	205	224	243	261	280
Vitamin D3, IU	48.6	53.4	58.3	63.2	68.0	72.9
Vitamin E, IU	0.94	1.0	1.1	1.2	1.3	1.4
Vitamin K, mg	0.0059	0.0065	0.0070	0.0076	0.0082	0.0088
Thiamine, mg	0.07	0.08	0.09	0.10	0.10	0.11
Riboflavin, mg	0.07	0.08	0.09	0.10	0.10	0.11
Vitamin B_6, mg	0.07	0.08	0.09	0.10	0.10	0.11
Vitamin B_{12}, mg	0.0002	0.0002	0.0002	0.0002	0.0003	0.0003
Niacin, mg	0.68	0.74	0.81	0.88	0.95	1.0
Folic Acid, mg	0.0088	0.0097	0.0106	0.0115	0.0124	0.0133
Pantothenic Acid, mg	0.40	0.44	0.48	0.52	0.56	0.60
Biotin, mg	0.0026	0.0029	0.0031	0.0034	0.0037	0.0039
Vitamin C, mg	7.1	7.8	8.5	9.3	10.0	10.7
Choline, mg	13.2	14.5	15.8	17.1	18.4	19.8
Inositol, mg	14.9	16.4	17.9	19.4	20.9	22.4
Minerals						
Calcium, mg	77.4	85.2	92.9	101	108	116
Phosphorus, mg	54.8	60.3	65.8	71.2	76.7	82.2
Magnesium, mg	7.0	7.7	8.4	9.2	9.9	10.6
Iron, mg	1.0	1.1	1.2	1.3	1.4	1.5
Zinc, mg	0.73	0.80	0.88	0.95	1.0	1.1
Manganese, mg	0.028	0.030	0.033	0.036	0.039	0.041
Copper, mg	0.057	0.062	0.068	0.074	0.079	0.085
Iodine, mg	0.014	0.015	0.017	0.018	0.019	0.021
Molybdenum, mg	0.0016	0.0017	0.0019	0.0020	0.0022	0.0023
Chromium, mg	0.0015	0.0016	0.0018	0.0019	0.0020	0.0022
Selenium, mg	0.0020	0.0022	0.0024	0.0026	0.0028	0.0030
Sodium, mg	26.1	28.7	31.3	33.9	36.5	39.1
Potassium, mg	72.5	79.7	87.0	94.2	101	109
Chloride, mg	53.3	58.6	63.9	69.3	74.6	79.9
Nucleotides, mg	3.2	3.5	3.9	4.2	4.5	4.8

Neocate® DHA & ARA

Dilution Charts

0.67 kcal/mL (Standard dilution)

Volume of Water		Amount of Neocate Powder†		Approximate Final Volume*	
mL	fl oz	scoops	grams	mL	fl oz
120	4	4	18.4	135	4.4
150	5	5	23.0	165	5.5
240	8	8	36.8	270	9.0
330	11	11	50.6	360	12.2
450	15	15	69.0	495	16.6
540	18	18	82.8	600	19.9
660	22	22	101.2	720	24.4
750	25	25	115	825	27.7
870	29	29	133	960	32.1
930	31	31	143	1035	34.3

0.73 kcal/mL

Volume of Water		Amount of Neocate Powder†		Approximate Final Volume*	
mL	fl oz	scoops	grams	mL	fl oz
135	4.5	5	23.0	150	5.0
165	5.5	6	27.6	180	6.1
240	8	9	41.4	270	9.0
330	11	12	55.2	375	12.3
435	14.5	16	73.6	480	16.2
540	18	20	92.0	600	20.1
660	22	24	110	735	24.6
765	25.5	28	129	855	28.5
870	29	32	147	975	32.4
975	32.5	36	166	1095	36.4

0.80 kcal/mL

Volume of Water		Amount of Neocate Powder†		Approximate Final Volume*	
mL	fl oz	scoops	grams	mL	fl oz
75	2.5	3	13.8	90	2.8
150	5	6	27.6	165	5.6
195	6.5	8	36.8	225	7.4
315	10.5	13	59.8	360	11.9
420	14	17	78.2	480	15.8
540	18	22	101	615	20.4
645	21.5	26	120	735	24.3
735	24.5	30	138	825	27.7
855	28.5	35	161	975	32.3
960	32	39	179	1080	36.2

0.87 kcal/mL

Volume of Water		Amount of Neocate Powder†		Approximate Final Volume*	
mL	fl oz	scoops	grams	mL	fl oz
90	3	4	18.4	105	3.4
135	4.5	6	27.6	150	5.1
225	7.5	10	46.0	255	8.6
315	10.5	14	64.4	360	12.0
420	14	19	87.4	480	16.0
540	18	24	110	615	20.6
630	21	28	129	720	24.0
735	24.5	33	152	840	28.0
825	27.5	37	170	945	31.5
900	30	40	184	1035	34.3

0.93 kcal/mL

Volume of Water		Amount of Neocate Powder†		Approximate Final Volume*	
mL	fl oz	scoops	grams	mL	fl oz
165	5.5	8	36.8	195	6.4
225	7.5	11	50.6	255	8.7
270	9	13	59.8	315	10.4
330	11	16	73.6	375	12.7
435	14.5	21	96.6	510	16.8
510	17	25	115	585	19.7
615	20.5	30	138	705	23.7
720	24	35	161	840	27.8
840	28	41	189	975	32.4
945	31.5	46	212	1095	36.4

1 kcal/mL

Volume of Water		Amount of Neocate Powder†		Approximate Final Volume*	
mL	fl oz	scoops	grams	mL	fl oz
75	2.5	4	18.4	90	2.9
150	5	8	36.8	180	5.9
210	7	11	50.6	240	8.2
300	10	16	73.6	345	11.7
420	14	22	101	495	16.4
510	17	27	124	600	19.9
615	20.5	32	147	720	23.9
720	24	38	175	840	28.1
840	28	44	202	975	32.7
930	31	49	225	1095	36.3

* 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 scale provides greatest accuracy. 1 level, unpacked scoop yields 4.6 grams powder and provides 22.22 kcal. 1 gram provides 4.83 kcal and displaces ~0.70 mL water.

Neocate® Junior, Unflavoured

Dilution Charts

0.67 kcal/mL

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

1 kcal/mL (Standard dilution)

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

0.73 kcal/mL

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

1.2 kcal/mL

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

0.80 kcal/mL

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

1.33 kcal/mL

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

0.87 kcal/mL

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

1.5kcal/mL

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

*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 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 is intended for individuals ages 1 and up and should be used under medical supervision.

Neocate® Junior with Fibre, Unflavoured

Dilution Charts

0.67 kcal/mL

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

1 kcal/mL (Standard dilution)

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

0.73 kcal/mL

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

1.2 kcal/mL

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

0.80 kcal/mL

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

1.33 kcal/mL

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

0.90 kcal/mL

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

1.5 kcal/mL

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

*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 scale provides greatest accuracy. 1 level, unpacked scoop yields 7.7 grams powder and provides 36.3 kcal. 1 gram provides 4.72 kcal and displaces ~0.74 mL water. Neocate Junior is intended for individuals ages 1 and up and should be used under medical supervision.

Neocate® Splash

Concentration Charts – Add Neocate Junior, Unflavoured

1.17 kcal/mL

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

1.33 kcal/mL

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

1.5 kcal/mL

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

Dilution Charts – Add Water

0.67 kcal/mL

Neocate Splash	Water Volume*		Approx. Final Volume*	
Drink Boxes	mL	fl oz	mL	fl oz
1	120	4	357	12
2	240	8	714	24
3	330	12	1041	36
4	450	15	1398	47
5	570	19	1755	59

0.73 kcal/mL

Neocate Splash	Water Volume*		Approx. Final Volume*	
Drink Boxes	mL	fl oz	mL	fl oz
2	165	5.5	639	21.5
3	240	8.5	951	32.5
4	330	11	1278	43
5	405	14	1590	54
6	480	17	1902	65

0.80 kcal/mL

Neocate Splash	Water Volume*		Approx. Final Volume*	
Drink Boxes	mL	fl oz	mL	fl oz
1	60	2	297	10
2	120	4	594	20
3	180	6	891	30
4	210	7	1158	39
5	270	9	1455	49

0.90 kcal/mL

Neocate Splash	Water Volume*		Approx. Final Volume*	
Drink Boxes	mL	fl oz	mL	fl oz
2	45	1.5	519	17.5
3	75	2.5	786	26.5
4	90	3	1038	35
5	120	4	1305	44
6	150	5	1572	53

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

Neocate® Junior with Fibre, Vanilla & Strawberry

Dilution Charts

0.67 kcal/mL

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

1 kcal/mL (Standard dilution)

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

0.73 kcal/mL

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

1.2 kcal/mL

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

0.80 kcal/mL

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

1.33 kcal/mL

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

0.90 kcal/mL

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

1.5 kcal/mL

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

*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 scale provides greatest accuracy. 1 level, unpacked scoop yields 7.3 grams powder and provides 34.5 kcal. 1 gram provides 4.72 kcal and displaces ~0.70 mL water. Neocate Junior is intended for individuals ages 1 and up and should be used under medical supervision.

Neocate® Junior with Fibre, Tropical

Dilution Charts

0.67 kcal/mL

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

0.73 kcal/mL

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

0.80 kcal/mL

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

0.90 kcal/mL

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

1 kcal/mL (Standard dilution)

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

1.2 kcal/mL

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

1.33 kcal/mL

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

1.5 kcal/mL

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

*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 scale provides greatest accuracy. 1 level, unpacked scoop yields 7.3 grams powder and provides 32.9 kcal. 1 gram provides 4.51 kcal and displaces ~0.70 mL water. Neocate Junior is intended for individuals ages 1 and up and should be used under medical supervision.

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.*

Rene
Diagnosed with PKU

METABOLICS

Periflex® Infant

A phenylalanine-free powdered infant formula containing iron, DHA and ARA, for the dietary management of phenylketonuria (PKU).

Main Features:

- Phenylalanine free
- Includes DHA and ARA
- Unflavoured powder
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, and minerals
- Provides 13 g of protein equivalent per 100 g of powder
- Standard dilution = 67 kcal/100 mL
- Osmolality (standard dilution) = 375 mOsm/kg H_2O
- Displacement: 0.68 mL/g

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
169654	6 x 400 g	1684

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Energy, kcal (kJ)	421 (1766)	324 (1358)
Protein Equivalent, g	13.0	10.0
Carbohydrate, g	49.3	37.9
Fat, g	19.1	14.7
Linoleic Acid, g	2.9	2.2
ARA, mg	63.4	48.8
DHA, mg	36.3	27.9
Ash, g	3.4	2.6
Amino Acids, g		
L-Alanine	0.62	0.48
L-Arginine	1.09	0.84
L-Aspartic acid	1.02	0.78
L-Cystine	0.41	0.32
L-Glutamine	1.28	0.98
Glycine	0.96	0.74
L-Histidine	0.63	0.48
L-Isoleucine	0.96	0.74
L-Leucine	1.65	1.27
L-Lysine	1.11	0.85
L-Methionine	0.26	0.20
L-Phenylalanine	Nil Added	Nil Added
L-Proline	1.10	0.85
L-Serine	0.72	0.55
L-Threonine	0.81	0.62
L-Tryptophan	0.31	0.24
L-Tyrosine	1.44	1.11
L-Valine	1.05	0.81
L-Carnitine	0.01	0.01
Taurine	0.02	0.01

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1648 (495)	1268 (381)
Vitamin D_3, IU (mg)	252 (0.0063)	194 (0.0048)
Vitamin E, IU (mg α-TE)	4.8 (3.2)	3.7 (2.5)
Vitamin K_1, mg	0.037	0.028
Thiamine, mg	0.39	0.30
Riboflavin, mg	0.58	0.45
Niacin, mg	6.5	5.0
Vitamin B_6, mg	0.52	0.40
Vitamin B_{12}, mg	0.0011	0.0008
Folic Acid, mcg	0.043	0.033
Pantothenic Acid, mg	2.6	2.0
Biotin, mg	0.013	0.010
Vitamin C, mg	39.0	30.0
Choline, mg	55.0	42.3
Inositol, mg	98.0	75.4
Minerals		
Calcium, mg	522	401
Phosphorus, mg	392	301
Magnesium, mg	52.0	40.0
Iron, mg	7.8	6.0
Zinc, mg	7.0	5.4
Manganese, mg	0.38	0.29
Copper, mg	0.52	0.40
Iodine, mg	0.065	0.050
Molybdenum, mg	0.020	0.015
Chromium, mg	0.015	0.012
Selenium, mg	0.0157	0.0121
Sodium, mg	157	121
Potassium, mg	653	502
Chloride, mg	325	250

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower Oil, Soy Oil, Coconut Oil), Calcium Phosphate, L-Arginine, L-Aspartate, Tripotassium Citrate, L-Leucine, L-Lysine Acetate, L-Tyrosine, L-Glutamine, L-Proline, L-Valine, Glycine, L-Isoleucine, Citric Acid Esters Of Mono- And Diglycerides, L-Threonine, L-Serine, L-Histidine, L-Alanine, Sodium Chloride, L-Cystine, L-Tryptophan, L-Methionine, Magnesium Acetate, Magnesium L-Aspartate, Potassium Chloride, *M. alpina Oil**, Choline Bitartrate, Inositol, *C. cohnii Oil***, Ascorbic Acid (Vitamin C), Ferrous Sulfate, Zinc Sulfate, Taurine, L-Carnitine, Niacinamide, Sunflower Oil, DL-Alpha Tocopherol Acetate (Vitamin E), Calcium-D-Pantothenate, Cupric Sulfate, Manganese Sulfate, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate , Thiamine Chloride Hydrochloride, Ascorbyl Palmitate, Potassium Iodide, Chromium Sulfate, Mixed Tocopherols, DL-Alpha Tocopherol (Vitamin E), Phylloquinone (Vitamin K_1), Sodium Molybdate, Folic Acid, Sodium Hydrogen Selenite, Biotin, Cholecalciferol (Vitamin D_3), Cyanocobalamin (Vitamin B_{12})

*A Source of Arachidonic Acid (ARA)
**A Source of Docosahexaenoic Acid (DHA)

PKU Periflex® Junior Plus

A phenylalanine-free, powdered formula 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-fibre 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, vanilla, berry and orange
- Osmolality (at 1.1 kcal/mL):
  1340 mOsm/kg H_2O
  Based on dilution of 36g powder (approx. 4 scoops) to 100 mL (3.5 fl oz) water
- Displacement: 0.72 mL/g

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
89477 - Plain	6 x 400 g (14.1 oz)	1540
89478 - Vanilla	6 x 400 g (14.1 oz)	1508
89474 - Berry	6 x 400 g (14.1 oz)	1508
89476 - Orange	6 x 400 g (14.1 oz)	1508

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories (flavours)	385 (377)	138 (135)
Protein Equivalent, g	28.0	10.0
Fat, g	12.5	4.5
Saturated, g	2.0	0.71
Monounsaturated, g	8.2	2.9
Polyunsaturated, g	1.8	0.64
DHA, mg	180	64.3
Carbohydrate, g (flavours)	43.2 (41.2)	15.4 (14.7)
Fibre, g	11.2	4.0
Soluble	8.0	2.9
Insoluble	3.2	1.1
Amino Acids, g		
L-Alanine	4.76	1.7
L-Arginine	1.74	0.62
L-Aspartic Acid	0.42	0.15
L-Cystine	1.9	0.68
L-Glutamine	3.36	1.2
Glycine	4.59	1.6
L-Histidine	0.70	0.25
L-Isoleucine	1.4	0.50
L-Leucine	2.24	0.80
L-Lysine	1.85	0.66
L-Methionine	0.73	0.26
L-Phenylalanine	Nil Added	Nil Added
L-Proline	2.24	0.80
L-Serine	1.2	0.43
L-Threonine	2.52	0.90
L-Tryptophan	0.42	0.15
L-Tyrosine	2.66	0.95
L-Valine	1.68	0.60
L-Carnitine	0.02	0.01
Taurine	0.05	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1399 (420)	500 (150)
Vitamin D_3, IU (mcg)	840 (210)	300 (7.5)
Vitamin E, IU (mg α-TE)	12.5 (8.4)	4.5 (3)
Vitamin K, mcg	14.0	5.0
Thiamine, mg	0.73	0.24
Riboflavin, mg	0.73	0.26
Vitamin B_6, mg	0.73	0.26
Vitamin B_{12}, mcg	1.3	0.46
Niacin, mg	2.0	0.71
Folic Acid, mcg	210	75
Pantothenic Acid, mg	4.2	1.5
Biotin, mcg	11.2	4.0
Vitamin C, mg	42.0	15.0
Choline, mg	224	80.0
Inositol, mg	56.0	20.0
Minerals		
Calcium, mg	980	350
Phosphorus, mg	641	229
Magnesium, mg	113	40.4
Iron, mg	10.0	3.6
Zinc, mg	4.9	1.8
Manganese, mg	0.92	0.33
Copper, mcg	560	200
Iodine, mcg	139	49.6
Molybdenum, mg	25.5	9.1
Chromium, mcg	10.2	3.6
Selenium, mcg	28.2	10.1
Sodium, mg	280	100
Potassium, mg	445	159
Chloride, mg	406	145

Ingredients:

Corn Syrup Solids, Refined Vegetable Oils (High Oleic Sunflower, Canola, Medium Chain Triglycerides (Palm Kernel and/or Coconut Oil), Sunflower), L-Alanine, Glycine, Fructo-oligosaccharides, L-Glutamine, Inulin, Corn Starch, L-Tyrosine, Calcium Phosphate Dibasic, L-Lysine Acetate, L-Threonine, Microcrystalline Cellulose, L-Leucine, L-Proline, Artificial Flavor, Gum Arabic, L-Cystine, L-Arginine, L-Valine, L-Isoleucine, Tripotassium Citrate, Trisodium Citrate, L-Serine, Calcium Chloride, L-Methionine, L-Histidine, Maltodextrin, Choline Bitartrate, Magnesium Hydrogen Phosphate, Magnesium L-Aspartate, Citric Acid Esters of Mono- and Diglycerides (CITREM), *C. cohnii Oil***, L-Tryptophan, Tricalcium Citrate, L-Ascorbic Acid, Soy Fibre, M-Inositol, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Folic Acid, Potassium Iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-alpha Tocopherol, Vitamin D_3, Phylloquinone, D-Biotin, Cyanocobalamin

Berry version also contains: Natural Flavor, Malic Acid, Artificial Sweetener: Sucralose[4], Artificial Color (Beet Red).

Vanilla version also contains: Artificial Sweetener: Sucralose[2].

Orange version also contains: Citric Acid, Natural Flavor, Artificial Sweetener: Sucralose[4], Artificial Colors (Beta Carotene, Beet Red).

CONTAINS: Soybean Oil, Coconut Oil.

Please see individual product label for exact order of ingredients.

**A source of docosahexaenoic acid (DHA)

[2]Contains 22.9 mg sucralose per 100 mL (standard dilution)
[3]Contains 11.4 mg sucralose per 100 mL (standard dilution)
[4]Contains 31.7 mg sucralose per 100 mL (standard dilution)

Periflex® Advance

A phenylalanine-free, powdered formula 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 unflavoured and orange
- Osmolality (mOsm/kg H_2O):

Dilution	Unflavoured	Orange
1 to 5	830	890
1 to 4	1060	1100

- Displacement: 0.60 mL/g

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
49835 - Unflavoured	6 x 454 g (1 lb)	1748
49837 - Orange	6 x 454 g (1 lb)	1675

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories (orange)	385 (369)	110 (105)
Protein Equivalent, g	35.0	10.0
Fat, g	12.6	3.6
Saturated, g	1.4	0.40
Monounsaturated, g	7.9	2.3
Polyunsaturated, g	2.7	0.77
Linoleic Acid, mg	2064	590
α-Linolenic Acid, mg	535	153
Carbohydrate, g (orange)	33.0 (29.0)	9.4 (8.3)
Amino Acids, g		
L-Alanine	1.4	0.40
L-Arginine	2.6	0.74
L-Aspartic Acid	2.5	0.71
L-Cystine	0.96	0.27
Glycine	2.5	0.71
L-Histidine	1.5	0.43
L-Isoleucine	2.4	0.69
L-Leucine	4.0	1.14
L-Lysine	3.1	0.89
L-Methionine	0.64	0.18
L-Phenylalanine	Nil Added	Nil Added
L-Proline	2.8	0.80
L-Serine	1.8	0.51
L-Threonine	1.9	0.54
L-Tryptophan	0.78	0.22
L-Tyrosine	3.5	1.00
L-Valine	2.5	0.71
L-Carnitine	0.03	0.01
Taurine	0.12	0.03
L-Glutamine	4.3	1.23

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1951 (586)	557 (167)
Vitamin D_3, IU (mcg)	292 (7.3)	83.4 (2.1)
Vitamin E, IU (mg α-TE)	16.2 (10.9)	4.6 (3.1)
Vitamin K, mcg	71.8	20.5
Thiamine, mg	0.80	0.23
Riboflavin, mg	0.85	0.24
Vitamin B_6, mg	1.4	0.40
Vitamin B_{12}, mcg	2.7	0.77
Niacin, mg	5.0	1.4
Folic Acid, mcg	430	123
Pantothenic Acid, mg	4.3	1.2
Biotin, mcg	21.4	6.1
Vitamin C, mg	54.3	15.5
Choline, mg	376	107
Inositol, mg	70.0	20.0
Minerals		
Calcium, mg	1035	296
Phosphorus, mg	995	284
Magnesium, mg	268	76.6
Iron, mg	12.9	3.7
Zinc, mg	7.9	2.3
Manganese, mg	1.6	0.46
Copper, mcg	720	206
Iodine, mcg	115	32.9
Molybdenum, mcg	32.4	9.3
Chromium, mcg	22.8	6.5
Selenium, mcg	50.8	14.5
Sodium, mg	490	140
Potassium, mg	613	175
Chloride, mg	490	140

Ingredients:

Corn Syrup Solids, High Oleic Safflower Oil, Canola Oil, L-Lysine, L-Aspartate, L-Glutamine, L -Leucine, L-Tyrosine, L-Proline, L -Arginine, L-Valine, Glycine, L-Isoleucine, Magnesium Hydrogen Phosphate, L-Threonine, and 2% or less of each of the following: L-Serine, Disodium Hydrogen Phosphate, L-Histidine, L-Alanine, Potassium Chloride, Choline Hydrogen Tartrate, L-Cystine, L-Tryptophan, Sugar, L-Methionine, Fractionated Coconut Oil, L-Lysine Acetate, 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-Panthothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamine Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

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

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

CONTAINS: Coconut Oil.

*Contains 21 mg sucralose per 100 mL (1:5 dilution) or 25.5 mg per 100 mL (1:4 dilution)

Please see individual product label for exact order of ingredients.

Periflex® LQ

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

Main Features:

- Phenylalanine free
- Contains a balanced mixture of other amino acids, carbohydrate, vitamins and minerals
- Can easily be used along with or in place of PKU Periflex Junior Plus or Advance
- No measuring or mixing
- Great addition to any daily PKU diet plan
- Provides 15 g of protein equivalent and 5 g of fat per 250 mL container
- Available in orange crème and berry crème flavours
- Osmolality (at 0.64 kcal/mL):
  Orange: 1080 mOsm/kg H_2O
  Berry: 1030 mOsm/kg H_2O
- Free water: 84%

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Container
80177 - Orange Crème	18 x 250 mL (8.5 fl oz)	160
80176 - Berry Crème	18 x 250 mL (8.5 fl oz)	160

Nutrition Information:

Nutrients	Per 250 mL	Per 10 g Protein Equivalent
Calories	160	107
Protein Equivalent, g	15.0	10.0
Fat, g	5.0	3.3
Saturated, g	0.75	0.50
Monounsaturated, g	3.0	2.0
Polyunsaturated, g	1.0	0.67
Carbohydrate, g	13.8	9.2
Amino Acids, g		
L-Alanine	0.68	0.45
L-Arginine	1.28	0.85
L-Aspartic Acid	1.2	0.80
L-Cystine	0.48	0.32
Glycine	1.23	0.82
L-Histidine	0.73	0.49
L-Isoleucine	1.13	0.75
L-Leucine	1.95	1.30
L-Lysine	1.5	1.00
L-Methionine	0.33	0.22
L-Phenylalanine	Nil Added	Nil Added
L-Proline	1.38	0.92
L-Serine	0.85	0.57
L-Threonine	0.95	0.63
L-Tryptophan	0.38	0.25
L-Tyrosine	1.73	1.15
L-Valine	1.25	0.83
L-Carnitine	0.01	0.01
Taurine	0.08	0.05
L-Glutamine	Nil Added	Nil Added

Vitamins	Per 250 mL	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	833 (250)	555 (167)
Vitamin D_3, IU (mcg)	130 (3.3)	87.0 (2.2)
Vitamin E, IU (mg α-TE)	7.0 (4.8)	4.7 (3.2)
Vitamin K, mcg	30.8	20.5
Thiamine, mg	0.35	0.23
Riboflavin, mg	0.38	0.25
Vitamin B_6, mg	0.60	0.40
Vitamin B_{12}, mcg	1.2	0.80
Niacin, mg	2.1	1.4
Folic Acid, mcg	184	123
Pantothenic Acid, mg	1.9	1.3
Biotin, mcg	9.3	6.2
Vitamin C, mg	23.3	15.5
Choline, mg	161	107
Inositol, mg	30.0	20.0
Minerals		
Calcium, mg	400	267
Phosphorus, mg	288	192
Magnesium, mg	114	76.0
Iron, mg	5.5	3.7
Zinc, mg	3.5	2.0
Manganese, mg	0.70	0.47
Copper, mcg	310	207
Iodine, mcg	49.0	32.7
Molybdenum, mcg	14.0	9.3
Chromium, mcg	9.8	6.5
Selenium, mcg	21.8	14.5
Sodium, mg	210	140
Potassium, mg	263	175
Chloride, mg	210	140

Ingredients:

Water, Sugar, and less than 2% of each of the following: Calcium Glycerophosphate, High Oleic Sunflower Oil, L-Lysine Acetate, Canola Oil, L-Leucine, L-Tyrosine, Artificial Flavor, L-Proline, L-Arginine, L-Valine, Glycine, L-Aspartic Acid, L-Isoleucine, Micro-Crystalline Cellulose, Citric Acid, L-Threonine, L-Serine, Magnesium Acetate, Tripotassium Citrate, L-Histidine, L-Alanine, L-Cystine, Choline Hydrogen Tartrate, N-Acetyl, L-Methionine, Sodium Chloride, L-Tryptophan, Trisodium Citrate, Soybean Oil, L-Ascorbic Acid, Diacetyl Tartaric Acid Esters of Monoglycerides, Mono- and Diglycerides, Guar Gum, Xanthan Gum, Artificial Sweetener: Acesulfame Potassium*, Taurine, M-Inositol, Ferrous Sulphate, Tricalcium Phosphate, Carnitine, Zinc Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Sulphate, Calcium-D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamine Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Cholecalciferol (Vitamin D_3), Folic Acid, Cyanocobalamin.

CONTAINS: Soybean Oil.

*__Orange Crème__ contains 37.9 mg acesulfame potassium per 250 mL, __Berry Crème__ contains 99.4 mg acesulfame potassium per 250 mL

Please see individual product label for exact order of ingredients.

PhenylAde® GMP Drink Mix

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

Main Features:

- Low in Phenylalanine
- Suitable for individuals with PKU over 1 year of age
- Complete with essential vitamins and minerals
- Contains a source of DHA
- 1.5 grams of soluble fibre per each 10 g protein equivalent serving
- Provides 30 g of protein equivalent and 12 g of fat per 100 g of powder
- Available in vanilla and original flavours
- Available in pouches (both flavours) and cans (Vanilla flavour only)
- Osmolality (at 0.73 kcal/mL): 460 mOsm/kg H_2O
  Based on dilution of 33.3 g powder (1 scoop or 1 pouch) to 150 mL water (5 fl oz)
- Displacement: 0.9 mL/g

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can/Pouch
CANS		
114098 - Vanilla	4 x 400 g (14.1 oz)	1584
POUCHES		
114099 - Vanilla	16 x 33.3 g (1.2 oz)	132
114116 - Original	16 x 33.3 g (1.2 oz)	132

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop or pouch)
Calories	396	132
Protein Equivalent, g	30.0	10.0
Phenylalanine, mg	46.0	15.3
Fat, g	12.0	4.0
Saturated, g	2.8	0.93
Monounsaturated, g	6.3	2.1
Polyunsaturated, g	2.5	0.84
DHA, mg	155	51.6
Carbohydrate, g	42.0	14.0
Fibre, g	4.5	1.5
Amino Acids, g		
L-Alanine	1.33	0.44
L-Arginine	1.42	0.47
L-Aspartic acid	1.89	0.63
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	0.44	0.15
L-Phenylalanine	0.05	0.02
L-Proline	2.57	0.86
L-Serine	1.63	0.54
L-Threonine	3.68	1.23
L-Tryptophan	0.72	0.24
L-Tyrosine	3.69	1.23
L-Valine	1.83	0.61
L-Carnitine	0.04	0.01
Taurine	0.09	0.03

Vitamins	Per 100 g	Per 10 g Protein Equivalent (1 scoop or pouch)
Vitamin A, IU (mcg RE)	2040 (765)	680 (255)
Vitamin D_3, IU (mcg)	900 (22.5)	300 (7.5)
Vitamin E, IU (mg α-TE)	22.8 (15.3)	7.6 (5.1)
Vitamin K, mcg	72.0	24.0
Thiamine, mg	1.4	0.47
Riboflavin, mg	1.8	0.60
Vitamin B_6, mg	1.7	0.56
Vitamin B_{12}, mcg	3.6	1.2
Niacin, mg	15.0	5.0
Folic Acid, mcg	360	120
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
Minerals		
Calcium, mg	1050	350
Phosphorus, mg	945	315
Magnesium, mg	252	84.0
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	465	155
Potassium, mg	1047	349
Chloride, mg	569	190

Ingredients:

Glycomacropeptide* (Milk), Refined Vegetable Oils (Canola, Safflower, Coconut and Soybean), Modified Corn Starch, Dextrin, Maltodextrin, L-Tyrosine, Tricalcium Phosphate. Contains 2 % or less of the following: L-Glycine, Magnesium Phosphate, L-Leucine, L-Histidine, L-Arginine, Potassium Chloride, L-Cystine, Choline Bitartrate, Dicalcium Phosphate, L-Tryptophan, *C. cohnii Oil***, Glucose Syrup Solids, Potassium Citrate, Ascorbyl Palmitate, Mixed Tocopherols, Silicon Dioxide, Rosemary Extract, Sodium Chloride, Ascorbic Acid, Taurine, Inositol, Mannitol, Vitamin E Acetate, Ferrous Sulfate, L-Carnitine, Glycerol Mono and Distearate, High Oleic Sunflower Oil, Sodium Polyphosphate, Sunflower Lecithin, Niacinamide, Zinc Oxide, Sodium Ascorbate, Vitamin D_3, Vitamin A Palmitate, Copper Gluconate, Manganese Sulfate, D-Calcium Pantothenate, D-Biotin, Beta-Carotene, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Potassium Iodide, Vitamin K_1, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

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

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

CONTAINS: Milk, Soybean Oil, Coconut Oil.

*Contains 15.3 mg of phenylalanine/10 g protein equivalent

**A source of Docosahexaenoic Acid (DHA)

PhenylAde® GMP READY

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

Main Features:

- Low in Phenylalanine
- Suitable for individuals with PKU over 1 year of age
- Complete with essential vitamins and minerals
- Contains a source of DHA & EPA
- No measuring or mixing
- Provides 10 g of protein equivalent and 4 g of fat per 250 mL container
- Available in Plain (neutral) flavour
- Osmolality (at 0.73 kcal/mL): 460 mOsm/kg H_2O
- Free water: 93%

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Container
139686	18 x 250 mL (8.5 fl oz)	110

Nutrition Information:

Nutrients	Per 10 g Protein Equivalent (250 mL)
Calories	110
Protein Equivalent, g	10.0
Phenylalanine, mg	18.0
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
Fibre, 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	1.35
Glycine	0.07
L-Histidine	0.40
L-Isoleucine	0.72
L-Leucine	1.53
L-Lysine	0.43
L-Methionine	0.13
L-Phenylalanine	0.02
L-Proline	0.79
L-Serine	0.51
L-Threonine	1.13
L-Tryptophan	0.24
L-Tyrosine	1.00
L-Valine	0.87
L-Carnitine	0.01
Taurine	0.03

Vitamins	Per 10 g Protein Equivalent (250 mL)
Vitamin A, IU (mcg RE)	665 (200)
Vitamin D_3, 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_6, mg	0.35
Vitamin B_{12}, 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 Glycerophosphate, L-Tyrosine, Maltodextrin, Cellulose Gum, Calcium Phosphate Dibasic, L-Arginine, Magnesium Acetate, L-Histidine, L-Valine, L-Cystine, Choline Bitartrate, Artificial Flavor, L-Tryptophan, Potassium Chloride, Calcium Lactate, Microcrystalline Cellulose, *C. cohnii* Oil**, Citric Acid Esters Of Mono- And Diglycerides (CITREM), Sodium Chloride, L-Ascorbic Acid, *Schizochytrium* Sp. Oil†, Taurine, M-Inositol, Sucralose††, Ferrous Lactate, L-Carnitine, Zinc Sulfate, 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.

*Contains 18 mg of phenylalanine per 10 g protein equivalent

**A source of docosahexaenoic acid (DHA)

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

††Contains 22.5 mg of sucralose per 250 mL

PhenylAde® GMP ULTRA

A powdered formula, 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 per pouch
- Complete blend of vitamins and minerals
- Available in Lemonade and Vanilla flavours
- Osmolality based on dilution of 33.4 g powder (1 pouch) to 6 fl oz (180 mL) water:
  - Vanilla: 500 mOsm/kg H_2O
  - Lemonade: 530 mOsm/kg H_2O
- Displacement: 0.64 mL/g

‡Contains 69% fewer calories than PhenylAde Essential

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Pouch
160056 - Vanilla	16 x 33.4 g (1.2 oz)	107
160058 - Lemonade	16 x 33.4 g (1.2 oz)	98

Nutrition Information:

Nutrients	Per 100 g	Per 20 g Protein Equivalent (1 pouch)
Calories (Lemonade)	321 (295)	107 (98)
Protein Equivalent, g	60	20
Phenylalanine, mg	108	36
Fat, g (Lemonade)	2.5 (0.19)	0.82 (0.06)
Carbohydrate, g (Lemonade)	14.8 (13.4)	4.9 (4.5)
Sugars, g (Lemonade)	9.7 (8.3)	3.2 (2.8)
Amino Acids, g		
L-Alanine	2.40	0.80
L-Arginine	2.90	0.96
L-Aspartic Acid	3.60	1.20
L-Cystine	1.80	0.60
L-Glutamic Acid	8.40	2.80
Glycine	0.48	0.16
L-Histidine	2.40	0.80
L-Isoleucine	4.40	1.50
L-Leucine	9.00	3.00
L-Lysine	2.60	0.86
L-Methionine	0.78	0.26
L-Phenylalanine	0.108	0.036
L-Proline	4.80	1.60
L-Serine	3.00	1.00
L-Threonine	6.60	2.20
L-Tryptophan	1.50	0.50
L-Tyrosine	6.00	2.00
L-Valine	5.30	1.80
L-Carnitine	0.08	0.03
Taurine	0.18	0.06

Vitamins	Per 100 g	Per 20 g Protein Equivalent (1 pouch)
Vitamin A, IU (mcg RE)	2448 (920)	816 (307)
Vitamin D_3, IU (mcg)	1080 (27.0)	360 (9.0)
Vitamin E, IU (mg α-TE)	27.6 (18.4)	9.2 (6.1)
Vitamin K, mcg	86.4	28.8
Thiamine, mg	2.2	0.73
Riboflavin, mg	2.2	0.72
Vitamin B_6, mg	2.0	0.68
Vitamin B_{12}, mcg	4.3	1.4
Niacin, mg	18.0	6.0
Folic Acid, mcg	240	80.0
Dietary Folate Equivalents, mcg	400	133
Pantothenic Acid, mg	6.0	2.0
Biotin, mcg	43.2	14.4
Vitamin C. mg	86.4	28.8
Choline, mg	360	120
Inositol, mg	71.3	23.8
Minerals		
Calcium, mg	1311	437
Phosphorus, mg	1287	429
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	493
Iodine, mcg	171	57.0
Molybdenum, mcg	66.6	22.2
Chromium, mcg	46.8	15.6
Selenium, mcg	66.6	22.2
Sodium, mg	1006	335
Potassium, mg	1428	476
Chloride, mg	720	240

Ingredients:

Vanilla: Glycomacropeptide* (Milk), Sugar, L-Leucine, L-Tyrosine, L-Arginine, Magnesium Hydrogen Phosphate, L-Histidine, Refined Vegetable Oils (Canola, Safflower, Coconut, Soy), Artificial Flavours, Tricalcium Phosphate, Maltodextrin, L-Valine, L-Cystine, L-Tryptophan, Dicalcium Phosphate, Potassium Chloride, Choline Bitartrate, Modified Corn Starch, Calcium Carbonate, Potassium Citrate, Sodium Chloride, Silicon Dioxide, Taurine, L-Ascorbic Acid, L-Carnitine, Inositol, Ferrous Sulfate, Sucralose**, DL-Alpha Tocopheryl Acetate, Niacinamide, Zinc Oxide, Copper Gluconate, Calcium D-Pantothenate, Thiamine Hydrochloride, Manganese Sulfate, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Palmitate, Sodium Selenite, Beta-Carotene, Sodium Molybdate, Potassium Iodide, Chromium Chloride, Folic Acid, Vitamin K_1, D-Biotin, Cholecalciferol, Cyanocobalamin.

CONTAINS: Milk, Coconut Oil, Soy Oil.

Lemonade: Glycomacropeptide* (Milk), L-Leucine, Sugar, L-Tyrosine, Citric Acid, L-Arginine, Natural Flavour, Magnesium Hydrogen Phosphate, L-Histidine, Tricalcium Phosphate, L-Valine, L-Cystine, Corn Syrup Solids, L-Tryptophan, Dicalcium Phosphate, Potassium Chloride, Maltodextrin, Choline Bitartrate, Calcium Carbonate, Potassium Citrate, Sodium Chloride, Silicon Dioxide, Taurine, L-Ascorbic Acid, Sucralose†, L-Carnitine, Inositol, Ferrous Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Zinc Oxide, Copper Gluconate, Calcium D-Pantothenate, Thiamine Hydrochloride, Manganese Sulfate, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Palmitate, Sodium Selenite, Beta-Carotene, Sodium Molybdate, Potassium Iodide, Chromium Chloride, Folic Acid, Vitamin K_1, D-Biotin, Cholecalciferol, Cyanocobalamin.

CONTAINS: Milk.

*Contains 36 mg of phenylalanine per 20 g protein equivalent

**Vanilla contains 16.6 mg sucralose per 33.4 g of powder

†Lemonade contains 30 mg sucralose per 33.4 g of powder

PhenylAde® GMP MIX-IN

A powdered formula, low in phenylalanine containing a balanced mix of glycomacropeptide (GMP), essential and non-essential amino acids, with small amounts of carbohydrates, fat and some minerals.

Main Features:

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

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Pouch
116130	20x12.5g (0.44 oz)	42

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 pouch)
Calories	334	42
Protein Equivalent	80.0	10.0
Phenylalanine, mg	122	15.3
Fat, g	<0.5	<0.5
Carbohydrate, g	2.7	<0.5
Amino Acids, g		
L-Alanine, g	3.51	0.44
L-Arginine, g	3.76	0.47
L-Aspartic acid, g	5.0	0.63
L-Cystine, g	2.45	0.31
L-Glutamic acid, g	11.0	1.38
Glycine, g	5.93	0.75
L-Histidine, g	3.89	0.49
L-Isoleucine, g	6.01	0.76
L-Leucine, g	6.19	0.78
L-Lysine, g	3.51	0.44
L-Methionine, g	1.17	0.15
L-Phenylalanine, g	0.12	0.02
L-Proline, g	6.81	0.86
L-Serine, g	4.31	0.54
L-Threonine, g	9.74	1.23
L-Tryptophan, g	1.89	0.24
L-Tyrosine, g	9.75	1.23
L-Valine, g	4.84	0.61
L-Carnitine, g	0.08	0.01
Taurine, g	0.24	0.03

Minerals	Per 100 g	Per 10 g Protein Equivalent (1 pouch)
Calcium, mg	320	40
Phosphorus, mg	320	40.0
Potassium, mg	1160	145
Sodium, mg	960	120

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, Refined Vegetable Oils (Canola, Safflower, Coconut and Soybean), Silicon Dioxide, Taurine, Modified Corn Starch, Maltodextrin, L-Carnitine, Ascorbyl Palmitate, Rosemary Extract, Mixed Tocopherols, Tricalcium Phosphate.

CONTAINS: Milk, Soybean Oil, Coconut Oil.

*Contains 15.3 mg of phenylalanine/10 g protein equivalent

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

PhenylAde® Essential Drink Mix

A phenylalanine-free, powdered formula 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
- Provides 25 g of protein equivalent and 13 g of fat per 100 g of powder
- Available in chocolate, vanilla, orange creme, strawberry, and unflavoured
- Available in cans and pouches
- Osmolality (at 0.65 kcal/mL): 800 mOsm/kg H_2O
  Based on dilution of 40 g powder (1 scoop or 1 pouch) to 210 mL (7 fl oz) water
- Displacement: 0.75 mL/g

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can/Pouch
CANS		
119868 - Chocolate	4 x 454 g (1 lb)	1784
119869 - Vanilla	4 x 454 g (1 lb)	1784
119870 - Orange Creme	4 x 454 g (1 lb)	1784
119871 - Strawberry	4 x 454 g (1 lb)	1784
119879 - Unflavoured	4 x 454 g (1 lb)	1784
POUCHES		
119856 - Chocolate	16 x 40 g (1.4 oz)	157
119857 - Vanilla	16 x 40 g (1.4 oz)	157
119858 - Orange Creme	16 x 40 g (1.4 oz)	157
119859 - Strawberry	16 x 40 g (1.4 oz)	157
119861 - Unflavoured	16 x 40 g (1.4 oz)	157

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop/pouch)
Calories	393	157
Protein Equivalent, g	25.0	10.0
Fat, g	13.0	5.0
Saturated Fat, g	3.0	1.2
Monounsaturated, g	6.8	2.7
Polyunsaturated, g	2.8	1.1
Linoleic Acid, mg	1936	774
α-Linolenic Acid, mg	725	290
Carbohydrate, g	46.0	18.0
Fibre	3.9	1.5
Amino Acids, g		
L-Alanine	2.32	0.93
L-Arginine	1.97	0.79
L-Asparagine	3.49	1.40
L-Cystine	0.34	0.14
L-Glutamine	3.89	1.56
Glycine	1.52	0.61
L-Histidine	0.63	0.25
L-Isoleucine	1.04	0.42
L-Leucine	2.24	0.90
L-Lysine	1.82	0.73
L-Methionine	0.61	0.24
L-Phenylalanine	Nil Added	Nil Added
L-Proline	1.52	0.61
L-Serine	2.24	0.90
L-Threonine	1.15	0.46
L-Tryptophan	0.58	0.23
L-Tyrosine	2.69	1.08
L-Valine	1.7	0.67
L-Carnitine	0.04	0.01
Taurine	0.08	0.03

Vitamins	Per 100 g	Per 10 g Protein Equivalent (1 scoop/pouch)
Vitamin A, IU (mcg RE) (25% as beta-carotene)	1700 (637)	680 (255)
Vitamin D_3, IU (mcg)	600 (15.0)	240 (6.0)
Vitamin E, IU (mg α-TE)	19.0 (12.7)	7.6 (5.1)
Vitamin K, mcg	61.0	24.0
Thiamine, mg	1.5	0.6
Riboflavin, mg	1.5	0.6
Vitamin B_6, mg	1.4	0.56
Vitamin B_{12}, mcg	3.0	1.2
Niacin, mg	17.0	6.8
Folic Acid, mcg	300	120
Pantothenic Acid, mg	4.0	1.6
Biotin, mcg	30.0	12.0
Vitamin C, mg	60.0	24.0
Choline, mg	210	84.0
Inositol, mg	50.0	20.0
Minerals		
Calcium, mg	822	329
Phosphorus, mg	788	315
Magnesium, mg	210	84.0
Iron, mg	11.0	4.4
Zinc, mg	10.0	4.0
Manganese, mg	1.3	0.52
Copper, mcg	1000	400
Iodine, mcg	100	40.0
Molybdenum, mcg	45.0	18.0
Chromium, mcg	30.0	12.0
Selenium, mcg	40.0	16.0
Sodium, mg	388	155
Potassium, mg	872	349
Chloride, mg	475	190

Ingredients:

Corn Syrup Solids, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Dextrin, L-Asparagine Monohydrate, L-Glutamine, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine. Contains 2% or less of the following: L-Arginine, Monocalcium Phosphate, L-Valine, Dicalcium Phosphate, Sodium Citrate, Glycine, L-Proline, Potassium Citrate, Coconut Oil, Soybean Oil, L-Threonine, L-Isoleucine, Potassium Chloride, L-Histidine, L-Methionine, Choline Bitartrate, L-Tryptophan, Flaxseed Oil, Magnesium Oxide, L-Cystine, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Silicon Dioxide, Tricalcium Phosphate, Sodium Chloride, Taurine, Ascorbic Acid, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Niacinamide, Calcium Phosphate, Zinc Oxide, Copper Gluconate, Vitamin K_1, Vitamin D_3, Vitamin A Palmitate, D-Calcium Pantothenate, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-carotene, Pyridoxine Hydrochloride, Riboflavin, Thiamine Mononitrate, Potassium Iodide, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

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

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

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

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

CONTAINS: Coconut Oil, Soybean Oil.

Please see individual product label for exact order of ingredients.

PhenylAde® 40 Drink Mix

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

Main Features:

- Phenylalanine free
- Complete with essential vitamins and minerals
- Only 0.5 g of fat and 83 calories per serving
- Provides 40 g of protein equivalent per 100 g of powder
- Available in citrus and unflavoured single serve pouches
- Osmolality (at 0.63 kcal/mL): 1110 mOsm/kg H_2O
  Based on dilution of 25 g powder (1 pouch) to 120 mL (4 fl oz) water
- Displacement: 0.48 mL/g

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Pouch
119863 - Unflavoured	20 x 25 g (0.88 oz)	83
119866 - Citrus	20 x 25 g (0.88 oz)	83

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 pouch)
Calories	330	83
Protein Equivalent, g	40.0	10.0
Fat, g	2.0	0.50
Saturated Fat, g	0.48	0.12
Monounsaturated, g	1.1	0.28
Polyunsaturated, g	0.40	0.10
Carbohydrate, g	38.0	9.5
Amino Acids, g		
L-Alanine	3.85	0.96
L-Arginine	3.27	0.82
L-Asparagine	5.04	1.26
L-Cystine	0.55	0.14
L-Glutamine	6.34	1.59
Glycine	2.47	0.62
L-Histidine	1.02	0.26
L-Isoleucine	1.64	0.41
L-Leucine	3.64	0.91
L-Lysine	2.98	0.75
L-Methionine	1.08	0.27
L-Phenylalanine	Nil Added	Nil Added
L-Proline	2.47	0.62
L-Serine	4.08	1.02
L-Threonine	1.92	0.48
L-Tryptophan	0.61	0.15
L-Tyrosine	3.78	0.95
L-Valine	2.74	0.69
L-Carnitine	0.06	0.01
Taurine	0.12	0.03

Vitamins	Per 100 g	Per 10 g Protein Equivalent (1 pouch)
Vitamin A, IU (mcg RE) (25% as beta-carotene)	1557(584)	389(146)
Vitamin D_3, IU (mcg)	347(8.7)	87.0(2.2)
Vitamin E, IU (mg α-TE)	15.4 (10.3)	3.9 (2.6)
Vitamin K, mcg	60.0	15.0
Thiamine, mg	1.4	0.35
Riboflavin, mg	1.3	0.32
Vitamin B_6, mg	1.5	0.38
Vitamin B_{12}, mcg	2.8	0.70
Niacin, mg	16.4	4.1
Folic Acid, mcg	468	117
Pantothenic Acid, mg	5.8	1.5
Biotin, mcg	35.0	8.8
Vitamin C, mg	75.0	18.9
Choline, mg	284	71.0
Inositol, mg	86.0	22.0
Minerals		
Calcium, mg	894	224
Phosphorus, mg	809	202
Magnesium, mg	209	52.0
Iron, mg	12.0	3.0
Zinc, mg	8.0	2.0
Manganese, mg	1.8	0.45
Copper, mcg	869	217
Iodine, mcg	133	33.0
Molybdenum, mcg	40.0	10.0
Chromium, mcg	27.0	6.7
Selenium, mcg	56.0	13.9
Sodium, mg	424	106
Potassium, mg	776	194
Chloride, mg	1322	331

Ingredients:

Corn Syrup Solids, Sugar, L-Glutamine, L-Asparagine Monohydrate, L-Serine, L-Alanine, L-Tyrosine, L-Lysine Monohydrochloride, L-Leucine, L-Arginine, L-Valine, Citric Acid, Tricalcium Phosphate, Glycine, L-Proline, Natural Flavor. Contains 2% or less of the following: L-Threonine, L-Isoleucine, Magnesium Phosphate, L-Methionine, Sodium Citrate, L-Histidine, Dipotassium Phosphate, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Choline Bitartrate, Potassium Chloride, L-Tryptophan, L-Cystine, Sodium Chloride, Coconut Oil, Soybean Oil, Taurine, Silicon Dioxide, Inositol, Ascorbic Acid, L-Carnitine, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Ferric Orthophosphate, Vitamin E Acetate, Zinc Sulfate, Niacinamide, Sucralose*, D-Calcium Pantothenate, Vitamin K_1, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D_3, Beta-carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

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

CONTAINS: Coconut Oil, Soybean Oil.

*Contains 2.5 mg sucralose per 25 g powder

Please see individual product label for exact order of ingredients.

PhenylAde® 60 Drink Mix

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

Main Features:

- Phenylalanine free
- Complete with essential vitamins and minerals
- Only 49 calories per serving
- Provides 60 g of protein equivalent per 100 g of powder
- Available in vanilla and unflavoured
- Suitable for individuals with PKU over 1 year of age
- Available in cans or pouches
- Osmolality (at 0.49 kcal/mL): 1256 mOsm/kg H_2O
  Based on dilution of 16.7 g powder (1 scoop or 1 pouch) to 90 mL (3 fl oz) water
- Displacement: 0.54 mL/g

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can/Pouch
CANS		
119852 - Unflavoured	4 x 454 g (1 lb)	1335
119853 - Vanilla	4 x 454 g (1 lb)	1335
POUCHES		
119876 - Unflavoured	30 x 16.7 g (0.59 oz)	49
119854 - Vanilla	30 x 16.7 g (0.59 oz)	49

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop/pouch)
Calories	294	49
Protein Equivalent, g	60.0	10.0
Fat, g	1.0	0.17
Saturated Fat, g	<0.50	<0.10
Monounsaturated, g	<0.50	<0.10
Polyunsaturated, g	<0.50	<0.10
Carbohydrate, g	11.0	2.0
Amino Acids, g		
L-Alanine	5.56	0.93
L-Arginine	4.72	0.79
L-Asparagine	8.36	1.39
L-Cystine	0.81	0.13
L-Glutamine	9.31	1.55
Glycine	3.63	0.61
L-Histidine	1.51	0.25
L-Isoleucine	2.49	0.42
L-Leucine	5.37	0.90
L-Lysine	4.36	0.73
L-Methionine	1.45	0.24
L-Phenylalanine	Nil Added	Nil Added
L-Proline	3.63	0.61
L-Serine	5.37	0.90
L-Threonine	2.76	0.46
L-Tryptophan	1.38	0.23
L-Tyrosine	6.45	1.08
L-Valine	4.01	0.67
L-Carnitine	0.09	0.01
Taurine	0.18	0.03

Vitamins	Per 100 g	Per 10 g Protein Equivalent (1 scoop/pouch)
Vitamin A, IU (mcg RE) (25% as beta-carotene)	2331 (874)	389 (146)
Vitamin D_3, IU (mcg)	520 (13.0)	87.0 (2.2)
Vitamin E, IU (mg α-TE)	23.0 (15.4)	3.8 (2.6)
Vitamin K, mcg	90.0	15.0
Thiamine, mg	2.1	0.35
Riboflavin, mg	1.9	0.32
Vitamin B_6, mg	2.3	0.38
Vitamin B_{12}, mcg	4.2	0.70
Niacin, mg	25.0	4.1
Folic Acid, mcg	700	117
Pantothenic Acid, mg	8.7	1.5
Biotin, mcg	53.0	8.8
Vitamin C, mg	113	19.0
Choline, mg	425	71.0
Inositol, mg	129	22.0
Minerals		
Calcium, mg	1300	217
Phosphorus, mg	1194	199
Magnesium, mg	310	52.0
Iron, mg	18.0	3.0
Zinc, mg	12.0	2.0
Manganese, mg	2.7	0.45
Copper, mcg	1300	217
Iodine, mcg	180	30.0
Molybdenum, mcg	60.0	10.0
Chromium, mcg	40.0	6.7
Selenium, mcg	83.0	14.0
Sodium, mg	600	100
Potassium, mg	1162	194
Chloride, mg	900	150

Ingredients:

Unflavoured: L-Asparagine Monohydrate, L-Glutamine, Sugar, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, L-Valine, Tricalcium Phosphate, Glycine, L-Proline, L-Threonine, Corn Syrup Solids, L-Isoleucine, Magnesium Phosphate. Contains 2% or less of the following: Sodium Citrate, L-Histidine, L-Methionine, L-Tryptophan, Dipotassium Phosphate, Potassium Chloride, Choline Bitartrate, Soy Lecithin, L-Cystine, Sodium Chloride, Silicon Dioxide, Modified Corn Starch, Taurine, Canola Oil, Maltodextrin, Safflower Oil, Ascorbic Acid, Inositol, L-Carnitine, Ferric Orthophosphate, Vitamin E Acetate, Coconut Oil, Soybean Oil, Zinc Sulfate, Niacinamide, Sucralose*, D-Calcium Pantothenate, Vitamin K_1, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D_3, Beta-carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

CONTAINS: Soy, Coconut Oil.

Vanilla: L-Asparagine Monohydrate, L-Glutamine, Sugar, L-Tyrosine, L-Lysine Acetate, L-Alanine, L-Leucine, L-Serine, L-Arginine, L-Valine, Tricalcium Phosphate, Glycine, L-Proline, L-Threonine, Natural and Artificial Flavor, L-Isoleucine, Magnesium Phosphate. Contains 2% or less of the following: Sodium Citrate, L-Histidine, L-Methionine, L-Tryptophan, Dipotassium Phosphate, Potassium Chloride, Choline Bitartrate, Soy Lecithin, L-Cystine, Sodium Chloride, Taurine, Ascorbic Acid, Inositol, Silicon Dioxide, L-Carnitine, Ferric Orthophosphate, Sucralose**, Vitamin E Acetate, Zinc Sulfate, Niacinamide, D-Calcium Pantothenate, Vitamin K_1, Manganese Sulfate, Vitamin A Palmitate, D-Biotin, Vitamin D_3, Beta-carotene, Copper Sulfate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Mononitrate, Riboflavin, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

CONTAINS: Soy.

*Contains 3 mg sucralose per 16.7 g powder

**Contains 11.7 mg sucralose per 16.7 g powder

PhenylAde® MTE Amino Acid Blend

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

Main Features:

- Phenylalanine free
- Only 40 calories per serving
- Available in cans and 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 Information:

Product Code	Product Packaging	Calories Per Can/Pouch
CANS		
120448	4 x 454 g (1 lb)	1421
POUCHES		
119862	30 x 12.8 g (0.45 oz)	40

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop/pouch)
Calories	312	40
Protein Equivalent, g	78.0	10.0
Fat, g	0	0
Carbohydrate, g	0	0
Amino Acids, g		
L-Alanine	7.23	0.93
L-Arginine	6.13	0. 79
L-Asparagine	10.87	1.40
L-Cystine	1.05	0. 14
L-Glutamine	12.11	1.55
Glycine	4.72	0. 61
L-Histidine	1.96	0. 25
L-Isoleucine	3.24	0. 42
L-Leucine	6.98	0. 90
L-Lysine	5.67	0. 73
L-Methionine	1.89	0. 24
L-Phenylalanine	Nil Added	Nil Added
L-Proline	4.72	0. 61
L-Serine	6.98	0. 90
L-Threonine	3.59	0. 46
L-Tryptophan	1.79	0. 23
L-Tyrosine	8.39	1.08
L-Valine	5.22	0. 67
L-Carnitine	0. 11	0.01
Taurine	0. 24	0.03
Minerals		
Calcium, mg	570	73.0
Chloride, mg	Trace	Trace
Chromium, mcg	23.0	3.0
Magnesium, mg	123	15.8
Molybdenum, mcg	23.0	3.0
Phosphorus, mg	570	73.0
Sodium, mg	Trace	Trace
Selenium, mcg	26.0	3.3

Ingredients:

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

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

PhenylAde® PheBLOC™ LNAA

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

Main Features:

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

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 Information:

Product Code	Product Packaging	Calories Per Case
123567	110 x 3 g (0.11 oz)	1100

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
Minerals		
Sodium, mg	Trace	Trace
Chloride, mg	28.0	56.0
Amino Acids, g		
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:

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

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

XPhe Maxamum®

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

Main Features:

- Phenylalanine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- XPhe Maxamum provides 40 g of protein equivalent per 100 g of powder
- Available in orange and unflavoured
- Contains <1 g of fat per 10 g protein equivalent thereby allowing greater flexibility in modifying energy intake
- Available in cans or pouches
- Osmolality (mOsm/kg H_2O):

Dilution	Unflavoured	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 Information:

Product Code	Product Packaging	Calories Per Can/Pouch
CANS		
49851 - Orange	6 x 454 g (1 lb)	1385
49850 - Unflavoured	6 x 454 g (1 lb)	1385
POUCHES		
49458 - Orange	30 x 50 g (1.8 oz)	153
49459 - Unflavoured	30 x 50 g (1.8 oz)	153

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	305	76
Protein Equivalent, g	40	10
Fat, g	<1	<0.25
Carbohydrate, g	34	8.5
Amino Acids, g		
L-Alanine	1.6	0.40
L-Arginine	3	0.75
L-Aspartic Acid	2.8	0.70
L-Cystine	1.1	0.28
Glycine	2.8	0.70
L-Histidine	1.7	0.43
L-Isoleucine	2.7	0.68
L-Leucine	4.6	1.15
L-Lysine	3.5	0.88
L-Methionine	0.73	0.18
L-Phenylalanine	Nil Added	Nil Added
L-Proline	3.2	0.80
L-Serine	2	0.50
L-Threonine	2.2	0.55
L-Tryptophan	0.89	0.22
L-Tyrosine	4	1.00
L-Valine	2.9	0.73
L-Carnitine	0.039	0.01
Taurine	0.14	0.04
L-Glutamine	4.9	1.23

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	2228 (669)	557 (167)
Vitamin D_3, IU (mcg)	332 (8.3)	83.0 (2.1)
Vitamin E, IU (mg α-TE)	18.3 (12.3)	4.6 (3.1)
Vitamin K, mcg	82.0	20.5
Thiamine, mg	0.91	0.23
Riboflavin, mg	0.97	0.24
Vitamin B_6, mg	1.6	0.40
Vitamin B_{12}, mcg	3.1	0.78
Niacin, mg	5.7	1.4
Folic Acid, mcg	491	123
Pantothenic Acid, mg	4.9	1.2
Biotin, mcg	24.5	6.1
Vitamin C, mg	62.0	15.5
Choline, mg	430	108
Inositol, mg	80.0	20.0
Minerals		
Calcium, mg	1183	296
Phosphorus, mg	1137	284
Magnesium, mg	306	76.5
Iron, mg	14.7	3.7
Zinc, mg	9.0	2.3
Manganese, mg	1.8	0.45
Copper, mcg	820	205
Iodine, mcg	131	32.8
Molybdenum, mcg	37.0	9.3
Chromium, mcg	26.0	6.5
Selenium, mcg	58.0	14.5
Sodium, mg	560	140
Potassium, mg	700	175
Chloride, mg	560	140

Ingredients:

Sugar, L-Arginine L-Aspartate, L-Lysine Acetate, L-Glutamine, L-Leucine, L-Tyrosine, Calcium Glycerophosphate, L-Proline, L-Valine, Glycine, L-Isoleucine, L-Threonine, Tripotassium Citrate, Magnesium Hydrogen Phosphate, and 2% or less of each of the following: L-Serine, L-Histidine, L-Alanine, Calcium Phosphate Dibasic, Choline Bitartrate, L-Cystine, Tricalcium Phosphate, Sodium Chloride, N-Acetyl L-Methionine, Trisodium Citrate, L-Tryptophan, Soy Lecithin, Magnesium L-Aspartate, Taurine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, DL-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Sodium Selenite, Thiamine Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

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

CONTAINS: Soy.

*Contains 13 mg acesulfame potassium per 100 mL (1:7 dilution) or 17.6 mg per 100 mL (1:5 dilution)

Please see individual product label for exact order of ingredients.

PKU Lophlex® LQ

A phenylalanine-free*, ready-to-drink formula containing amino acids, vitamins and minerals, based on fruit juice (from concentrate) with natural flavour; 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 protein equivalent in just 125 mL (4.2 fl oz)
- Convenient ready-to-drink
- Made with real fruit juice from concentrate
- Contains a balanced mixture of other essential and non-essential amino acids, carbohydrates, vitamins and minerals
- Provides 150 mg of DHA per pouch
- Available in juicy orange, mixed berry blast and juicy tropical flavours
- Osmolality (at 0.96 kcal/mL): 2460 mOsm/kg H_2O

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Pouch
86051 - Juicy Orange	30 x 125 mL (4.2 fl oz)	120
86021 - Mixed Berry Blast	30 x 125 mL (4.2 fl oz)	120
86055 - Juicy Tropical	30 x 125 mL (4.2 fl oz)	120

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

Nutrition Information:

Nutrients	Per Pouch (125 mL)	Per 10 g Protein Equivalent
Calories	120	60
Protein Equivalent, g	20.0	10.0
Fat, g	0.44	0.22
DHA, mg	150	75.0
Carbohydrate, g	9.3	4.7
Of which Fibre, g	0.50	0.25
Amino Acids, g		
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	1.1
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

Vitamins	Per Pouch (125 mL)	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	949 (285)	475 (143)
Vitamin D_3, IU (mcg)	320 (8.0)	160 (4.0)
Vitamin E, IU (mg α-TE)	4.8 (3.2)	2.4 (1.6)
Vitamin K, mcg	24.9	12.5
Thiamine, mg	0.54	0.27
Riboflavin, mg	0.50	0.25
Vitamin B_6, mg	0.58	0.29
Vitamin B_{12}, mcg	1.8	0.90
Niacin, mg	7.1	3.6
Folic Acid, mg	120	60.0
Pantothenic Acid, mg	1.8	0.90
Biotin, mcg	53.4	26.7
Vitamin C, mg	17.8	8.9
Choline, mg	153	76.5
Inositol, mg	40.6	20.3
Minerals		
Calcium, mg	319	160
Phosphorus, mg	244	122
Magnesium, mg	96.3	48.2
Iron, mg	5.1	2.6
Zinc, mg	3.8	1.9
Manganese, mcg	0.56	0.28
Copper, mcg	56.3	28.2
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	<25.0	<12.5
Potassium, mg	90.0	45.0
Chloride, mg	<25.0	<12.5

Ingredients:

Water, and less than 2% of each of the following: L-Leucine, Citric Acid, L-Proline, L-Arginine, Glycine, L-Tyrosine, L-Lysine Acetate, L-Valine, L-Aspartic Acid, L-Isoleucine, Dicalcium Phosphate, L-Alanine, L-Serine, L-Threonine, L-Histidine, L-Lysine, L-Aspartate, Maltodextrin, Magnesium Acetate, L-Cystine, Choline Bitartrate, L-Tryptophan, Sugar, *C. cohnii Oil***, N-Acetyl L-Methionine, Microcrystalline Cellulose, L-Ascorbic Acid, Taurine, L-Methionine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate (preservative to delay spoilage), Ferrous Lactate, Cellulose Gum, Artificial Sweetener: Acesulfame Potassium, L-Carnitine, Sodium Benzoate (preservative to delay spoilage), Zinc Sulfate, Niacinamide, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Mixed Tocopherols, Sodium Molybdate, D-Biotin, Sodium Selenite, Chromium Chloride, Phylloquinone, Vitamin D_3, Cyanocobalamin.

**A Source Of Docosahexaenoic Acid (DHA)

Juicy Orange flavoured version also contains: Orange Juice from Concentrate (45.5%), Corn Syrup Solids, and less than 2% of the following: Natural Flavour, Sucralose and Acesulfame Potassium.[E] Contains 45.5% juice.

Mixed Berry Blast flavoured version also contains: Apple Juice from Concentrate (34.1%), Grape Juice from Concentrate (6.9%), Blackcurrant Juice from Concentrate (2.5%), and less than 2% of the following: Elderberry Juice from Concentrate (0.6%), Natural Flavor, Concentrate (Apple, Blackcurrant, Radish), Sucralose and Acesulfame Potassium.[E] Contains 44.1% juice.

Juicy Tropical flavoured version also contains: Orange Juice from Concentrate (18%), Mango Puree from Concentrate (6.4%), Mandarin Juice from Concentrate (4.0%), Corn Syrup Solids, and Artificial Flavour, Acesulfame Potassum.[‡] Contains 28.4% juice.

[‡]Contains 31.3 mg sucralose and 25 mg acesulfame potassium per 125 mL.
[E]Contains 25 mg acesulfame potassium per 125 mL
Please see individual product label for exact order of ingredients.

PKU Lophlex® Powder

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

Main Features:

- Phenylalanine free
- Low volume
- Contains vitamins, minerals, and trace elements
- Age-appropriate DRI formulation
- Lophlex provides 10 g of protein equivalent per single serve sachet
- Available in berry and orange flavours
- Osmolality (mOsm/kg H_2O):

Dilution	Orange	Berry
1 to 5	1390	1340

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Sachet
49418 - Berry	30 x 14.3 g (0.5 oz)	41
49417 - Orange	30 x 14.3 g (0.5 oz)	41

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 sachet)
Calories	286	41
Protein Equivalent, g	70.0	10.0
Fat, g	0.20	0.03
Carbohydrate, g	1.0	0.14
Amino Acids, g		
L-Alanine	3.3	0.47
L-Arginine	5.8	0.83
L-Aspartic Acid	5.4	0.77
L-Cystine	2.2	0.31
Glycine	5.1	0.73
L-Histidine	3.3	0.47
L-Isoleucine	5.1	0.73
L-Leucine	8.7	1.24
L-Lysine	5.9	0.84
L-Methionine	1.4	0.20
L-Phenylalanine	Nil Added	Nil Added
L-Proline	6.2	0.89
L-Serine	3.8	0.54
L-Threonine	4.3	0.61
L-Tryptophan	1.7	0.24
L-Tyrosine	7.8	1.12
L-Valine	5.6	0.80
L-Carnitine	0.06	0.01
Taurine	0.11	0.02
L-Glutamine	3.95	0.56

Vitamins	Per 100 g	Per 10 g Protein Equivalent (1 sachet)
Vitamin A, IU (mcg RE)	3896 (1170)	557 (167)
Vitamin D_3, IU (mcg)	580 (14.5)	82.9 (2.1)
Vitamin E, IU (mg α-TE)	32.0 (21.5)	4.6 (3.1)
Vitamin K, mcg	143	20.4
Thiamine, mg	1.6	0.23
Riboflavin, mg	1.7	0.24
Vitamin B_6, mg	2.8	0.4
Vitamin B_{12}, mcg	5.5	0.79
Niacin, mg	10.0	1.4
Folic Acid, mcg	860	123
Pantothenic Acid, mg	8.6	1.2
Biotin, mcg	43.0	6.1
Vitamin C, mg	110	15.7
Choline, mg	720	103
Inositol, mg	140	20.0
Minerals		
Calcium, mg	2070	296
Phosphorus, mg	1990	285
Magnesium, mg	535	76.5
Iron, mg	25.7	3.7
Zinc, mg	15.8	2.3
Manganese, mg	3.1	0.44
Copper, mcg	1430	204
Iodine, mcg	229	32.7
Molybdenum, mcg	65.0	9.3
Chromium, mcg	46.0	6.6
Selenium, mcg	101	14.4
Sodium, mg	<20.0	<3.0
Potassium, mg	<40.0	<6.0
Chloride, mg	<1.0	<1.0

Ingredients:

Berry L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, L-Proline, L-Arginine, Calcium Phosphate Tribasic, L-Valine, Glycine, L-Isoleucine, L-Threonine, Magnesium Hydrogen Phosphate, L-Glutamine, L-Serine, L-Histidine, L-Alanine, Citric Acid, L-Cystine, N-Acetyl L-Methionine, Choline Bitartrate, L-Tryptophan, Calcium Phosphate Monobasic, Guar Gum, Artificial Flavor, Soy Lecithin, L-Ascorbic Acid, M-Inositol, Artificial Sweetener: Acesulfame Potassium*, Taurine, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, Dl-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamine Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Beet Juice (For Color), Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Orange L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, L-Proline, L-Arginine, Calcium Phosphate Tribasic, L-Valine, Glycine, L-Isoleucine, Magnesium Hydrogen Phosphate, L-Threonine, L-Glutamine, L-Serine, L-Histidine, L-Alanine, Citric Acid, L-Cystine, N-Acetyl L-Methionine, Choline Bitartrate, L-Tryptophan, Calcium Phosphate Monobasic, Artificial Flavor, Guar Gum, Soy Lecithin, L-Ascorbic Acid, M-Inositol, Artificial Sweetener: Acesulfame Potassium*, Taurine, Ferrous Sulfate, L-Carnitine, Zinc Sulfate, Dl-Alpha Tocopheryl Acetate, Niacinamide, Manganese Sulfate, Calcium D-Pantothenate, Cupric Sulfate, Pyridoxine Hydrochloride, Thiamine Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Beet Juice (For Color), Beta Carotene (For Color), Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

CONTAINS: Soy.

*Contains 30 mg acesulfame potassium per 100 mL (1:5 dilution) or 50 mg per 100 mL (1:3 dilution)

Phlexy-10® Drink Mix

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

Main Features:

- Phenylalanine free
- Available as blackcurrant/apple and tropical surprise flavour
- Each pouch provides 8.33 g protein equivalent
- Convenient, pre-measured single serve pouches
- Osmolality (mOsm/kg H_2O):

Dilution	Blackcurrant Apple	Tropical Surprise
1 to 5	1172	1140

Indications:

- Phenylketonuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Pouch
49161 - Drink Mix (Blackcurrant/Apple)	30 x 20 g (0.7 oz)	69
49257 - Drink Mix (Tropical Surprise)	30 x 20 g (0.7 oz)	69

Nutrition Information:

	Per 20 g Pouch
Nutrients	
Calories	69
Protein Equivalent, g	8.33
Fat, g	Nil Added
Saturated, g	Nil Added
Monounsaturated, g	Nil Added
Polyunsaturated, g	Nil Added
Carbohydrate, g	8.8
Fibre, g	Nil Added
Amino Acids, g	
L-Alanine	0.41
L-Arginine	0.72
L-Aspartic Acid	0.68
L-Cystine	0.27
Glycine	0.64
L-Histidine	0.41
L-Isoleucine	0.64
L-Leucine	1.09
L-Lysine	0.74
L-Methionine	0.17
L-Phenylalanine	Nil Added
L-Proline	0.77
L-Serine	0.47
L-Threonine	0.54
L-Tryptophan	0.22
L-Tyrosine	0.97
L-Valine	0.70
L-Carnitine	0.007
Taurine	0.014
L-Glutamine	0.50

Ingredients:

Blackcurrant/Apple: Sucrose, L-Lysine Aspartate, L-Leucine, L-Tyrosine, Artificial Flavors, L-Proline, L-Arginine, L-Valine, L-Isoleucine, Glycine, Malic Acid, L-Threonine, L-Glutamine, Corn Syrup Solids, L-Serine, L-Histidine, L-Alanine, L-Cystine, N-Acetyl L-Methionine, L-Tryptophan, Soy Lecithin, Taurine, L-Carnitine, Artificial Sweetener: Sodium Saccharin*, Artificial Color.

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

CONTAINS: Soy.

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

*Contains 4 mg sodium saccharin per 100 mL (1:5 dilution)

**Contains 40 mg acesulfame potassium per 100 mL (1:5 dilution)

Please see individual product label for exact order of ingredients.

Complex MSD® Junior

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

Main Features:

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

Indications:

- Maple syrup urine disease (MSUD)

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
120911	4 x 400 g (14.1 oz)	1976

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

Nutrition Information:

Nutrients	Per 100 g Powder	Per 10 g Protein Equivalent (1 scoop)
Calories	494	380
Protein Equivalent, g	13.0	10.0
Fat, g	29.0	22.3
Saturated Fat, g	10.2	7.8
Monounsaturated, g	13.4	10.3
Polyunsaturated, g	5.0	3.85
Linoleic Acid, mg	3730	2869
Carbohydrate, g	46.0	35.4
Amino Acids, g		
L-Alanine	1.40	1.08
L-Arginine	0.66	0.51
L-Asparagine	0.75	0.58
L-Cystine	0.29	0.22
L-Glutamic Acid	0.45	0.35
L-Glutamine	3.71	2.85
Glycine	0.35	0.27
L-Histidine	0.92	0.71
L-Isoleucine	Nil Added	Nil Added
L-Leucine	Nil Added	Nil Added
L-Lysine	1.17	0.90
L-Methionine	0.38	0.29
L-Phenylalanine	1.14	0.88
L-Proline	0.76	0.58
L-Serine	0.58	0.45
L-Threonine	0.94	0.72
L-Tryptophan	0.69	0.53
L-Tyrosine	1.14	0.88
L-Valine	Nil Added	Nil Added
L-Carnitine	0.030	0.023
Taurine	0.070	0.054

Nutrients	Per 100 g Powder	Per 10 g Protein Equivalent (1 scoop)
Vitamin A, IU (mcg RE)	1187 (356)	913 (274)
Vitamin D_3, IU (mcg)	429 (10.7)	330 (8.2)
Vitamin E, IU (mg α-TE)	13.8 (9.2)	10.6 (7.1)
Vitamin K, mcg	62.0	47.7
Thiamine, mg	1.1	0.85
Riboflavin, mg	0.81	0.62
Vitamin B_6, mg	0.78	0.60
Vitamin B_{12}, mcg	2.0	1.5
Niacin, mg	5.8	4.5
Folic Acid, mcg	140	108
Pantothenic Acid, mg	3.4	2.6
Biotin, mcg	36.0	27.7
Vitamin C, mg	78.0	60.0
Choline, mg	244	188
Inositol, mg	148	114
Minerals		
Calcium, mg	596	458
Phosphorus, mg	444	341
Magnesium, mg	68.0	52.3
Iron, mg	14.7	11.3
Zinc, mg	29.0	22.3
Manganese, mg	0.44	0.34
Copper, mcg	952	732
Iodine, mcg	96.0	73.8
Molybdenum, mcg	15.8	12.2
Chromium, mcg	16.2	12.5
Selenium, mcg	44.0	33.8
Sodium, mg	303	233
Potassium, mg	797	613
Chloride, mg	384	295

Ingredients:

Corn Syrup Solids, Maltodextrin, Modified Corn Starch, Canola Oil, Safflower Oil, Coconut Oil, L-Glutamine, Soybean Oil. Contains 2% or less of the following: Tricalcium Phosphate, L-Lysine Acetate, L-Alanine, L-Phenylalanine, L-Tyrosine, Sodium Citrate, Dipotassium Phosphate, L-Threonine, L-Histidine, L-Asparagine Monohydrate, L-Proline, L-Tryptophan, Choline Bitartrate, L-Arginine, Ascorbyl Palmitate, Mixed Tocopherols, Magnesium Chloride, Rosemary Extract, L-Serine, Potassium Citrate, Potassium Chloride, L-Glutamic Acid, L-Methionine, Glycine, Silicon Dioxide, L-Cystine, *C. cohnii Oil**, Glucose Syrup Solids, Mono- and Diglycerides, *M. alpina Oil***, Inositol, Ascorbic Acid, Zinc Sulfate, Taurine, Ferrous Sulfate, High Oleic Sunflower Oil, Mannitol, L-Carnitine, Vitamin E Acetate, Glycerol, Mono- and Distearate, Natural Flavor, Sodium Polyphosphate, Sunflower Lecithin, Sodium Ascorbate, Vitamin K_1, Niacinamide, Vitamin A Palmitate, Vitamin D_3, D-Calcium Pantothenate, D-Biotin, Copper Sulfate, Manganese Sulfate, Thiamine Hydrochloride, Potassium Iodide, Pyridoxine Hydrochloride, Sodium Selenite, Riboflavin, Vitamin B_{12}, Folic Acid, Chromium Chloride, Sodium Molybdate.

CONTAINS: Coconut Oil, Soybean Oil.

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

Complex MSD® Essential

A valine-, leucine-, and isoleucine-free powdered formula 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 study†
- Complete with essential vitamins and minerals
- Provides 25 g of protein equivalent per 100 g of powder
- Vanilla flavour
- Osmolality (at 0.63 kcal/mL): 813 mOsm/kg H_2O
  Based on dilution of 40 g powder (1 scoop) to 210 mL (7 fl oz) 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 Information:

Product Code	Product Packaging	Calories Per Can
120460	4 x 454 g (1 lb)	1725

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

Nutrition Information:

Nutrients	Per 100 g Powder	Per 10 g Protein Equivalent (1 scoop)
Calories	380	152
Protein Equivalent, g	25.0	10.0
Fat, g	12.0	5.0
Saturated Fat, g	2.8	1.1
Monounsaturated, g	6.3	2.5
Polyunsaturated, g	2.7	1.1
Linoleic Acid, mg	1733	693
α-Linolenic Acid, mg	662	265
Carbohydrate, g	47.0	19.0
Fibre	3.9	1.5
Amino Acids, g		
L-Alanine	2.70	1.08
L-Arginine	1.28	0.51
L-Asparagine	1.45	0.58
L-Cystine	0.56	0.22
L-Glutamic Acid	0.86	0.35
L-Glutamine	7.17	2.87
Glycine	0.67	0.27
L-Histidine	1.79	0.71
L-Isoleucine	Nil Added	Nil Added
L-Leucine	Nil Added	Nil Added
L-Lysine	2.27	0.91
L-Methionine	0.74	0.30
L-Phenylalanine	2.20	0.88
L-Proline	1.48	0.59
L-Serine	1.12	0.45
L-Threonine	1.81	0.72
L-Tryptophan	1.33	0.53
L-Tyrosine	2.20	0.88
L-Valine	Nil Added	Nil Added
L-Carnitine	0.06	0.02
Taurine	0.14	0.06

Nutrients	Per 100 g Powder	Per 10 g Protein Equivalent (1 scoop)
Vitamin A, IU (mcg RE) (25% as beta-carotene)	1700 (637)	680 (255)
Vitamin D_3, IU (mcg)	600 (15.0)	240 (6.0)
Vitamin E, IU (mg α–TE)	18.4 (12.3)	7.3 (4.9)
Vitamin K, mcg	50.0	20.0
Thiamine, mg	1.5	0.60
Riboflavin, mg	1.5	0.60
Vitamin B_6, mg	1.3	0.52
Vitamin B_{12}, mcg	2.0	0.80
Niacin, mg	12.0	4.8
Folic Acid, mcg	250	100
Pantothenic Acid, mg	5.5	2.2
Biotin, mcg	30.0	12.0
Vitamin C, mg	60.0	24.0
Choline, mg	100	40.0
Inositol, mg	40.0	16.0
Minerals		
Calcium, mg	886	355
Phosphorus, mg	864	346
Magnesium, mg	200	80.0
Iron, mg	13.0	5.0
Zinc, mg	12.0	4.8
Manganese, mg	1.5	0.60
Copper, mcg	1000	400
Iodine, mcg	120	48.0
Molybdenum, mcg	75.0	30.0
Chromium, mcg	40.0	16.1
Selenium, mcg	100	40.0
Sodium, mg	600	240
Potassium, mg	1301	520
Chloride, mg	860	344

Ingredients:

Sugar, L- Glutamine, Modified Food Starch, Dextrin, Canola Oil, Maltodextrin, Safflower Oil, L-Lysine Acetate, L-Alanine, Natural and Artificial Flavor, Tricalcium Phosphate, Potassium Citrate, L-Phenylalanine, L-Tyrosine. Contains 2% or less of the following: L-Threonine, L-Histidine, L-Asparagine Monohydrate, Magnesium Phosphate, Sodium Chloride, L-Proline, Dipotassium Phosphate, L-Tryptophan, L-Arginine, L-Serine, Coconut Oil, Soybean Oil, L-Glutamic Acid, L-Methionine, Glycine, L-Cystine, Flaxseed Oil, Titanium Dioxide, Choline Bitartrate, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Sodium Citrate, Taurine, Ascorbic Acid, L-Carnitine, Ferrous Sulfate, Inositol, Vitamin E Acetate, Zinc Sulfate, Calcium Phosphate, Niacinamide, Copper Gluconate, D-Calcium Pantothenate, Vitamin D_3, Vitamin A Palmitate, Vitamin K_1, Manganese Sulfate, Mono - and Diglycerides, D-Biotin, Beta-carotene, Chromium Chloride, Sodium Selenite, Pyridoxine Hydrochloride, Riboflavin, Potassium Iodide, Thiamine Mononitrate, Folic Acid, Sodium Molybdate, Vitamin B_{12}.

CONTAINS: Coconut Oil, Soybean Oil.

Complex MSD® Amino Acid Blend

An isoleucine-, leucine-, and valine-free powdered formula 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 study†
- Does not contain fat, carbohydrates, vitamins and minerals
- 40 calories per serving
- Provides 81 g of protein equivalent per 100 g of powder
- Unflavoured
- Displacement: 0.48 mL/g

Indications:

- Maple syrup urine disease (MSUD)

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
120459	4 x 454 g (1 lb)	1466

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

Nutrition Information:

Nutrients	Per 100 g Powder	Per 10 g Protein Equivalent (1 scoop)
Calories	323	40
Protein Equivalent, g	81.0	10.0
Fat, g	0	0
Carbohydrate, g	0	0

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

Ingredients:

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

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

MSUD Maxamum®

A valine-, leucine-, and isoleucine-free powdered formula 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 flavour
- Contains <1 g of fat per 10 g protein equivalent thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg H_2O):
  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 Information:

Product Code	Product Per Can	Calories Per Can
49815	6 x 454 g (1 lb)	1385

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	305	76
Protein Equivalent, g	40.0	10.0
Fat, g	<1.0	<0.25
Carbohydrate, g	34.0	8.5
Amino Acids, g		
L-Alanine	2.4	0.60
L-Arginine	4.1	1.03
L-Aspartic Acid	3.4	0.85
L-Cystine	1.6	0.40
L-Glutamic Acid	4.6	1.15
Glycine	3.7	0.93
L-Histidine	2.3	0.58
L-Isoleucine	Nil Added	Nil Added
L-Leucine	Nil Added	Nil Added
L-Lysine	4.2	1.05
L-Methionine	0.99	0.25
L-Phenylalanine	2.8	0.70
L-Proline	4.5	1.13
L-Serine	2.8	0.70
L-Threonine	3.1	0.78
L-Tryptophan	1.3	0.33
L-Tyrosine	2.8	0.70
L-Valine	Nil Added	Nil Added
L-Carnitine	0.04	0.01
Taurine	0.14	0.04
L-Glutamine	0.32	0.08

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	2228 (669)	557 (167)
Vitamin D_3, IU (mcg)	33.2 (8.3)	83.0 (2.1)
Vitamin E, IU (mg α-TE)	18.3 (12.3)	4.6 (3.1)
Vitamin K, mcg	82.0	20.5
Thiamine, mg	0.91	0.23
Riboflavin, mg	0.97	0.24
Vitamin B_6, mg	1.6	0.40
Vitamin B_{12}, mcg	3.1	0.78
Niacin, mg	5.7	1.4
Folic Acid, mcg	491	123
Pantothenic Acid, mg	4.9	1.2
Biotin, mcg	24.5	6.1
Vitamin C, mg	62.0	15.5
Choline, mg	430	108
Inositol, mg	80.0	20.0
Minerals		
Calcium, mg	1183	296
Phosphorus, mg	1137	284
Magnesium, mg	306	76.5
Iron, mg	14.7	3.7
Zinc, mg	9.0	2.3
Manganese, mg	1.8	0.45
Copper, mcg	820	205
Iodine, mcg	131	32.8
Molybdenum, mcg	37.0	9.3
Chromium, mcg	26.0	6.5
Selenium, mcg	58.0	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 Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Colors (Beta-Carotene, Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

CONTAINS: Soy.

MSUD Lophlex® LQ

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

Main Features:

- Valine, leucine, and isoleucine free
- Low volume; provides 20 g protein equivalent in just 125 mL (4.2 fl oz)
- Convenient ready-to-drink
- Based on fruit juices (from concentrate) with natural flavour - no artificial flavours
- Contains a balanced mixture of other essential and non-essential amino acids, carbohydrates, vitamins, minerals and DHA
- Provides 150 mg of DHA per pouch
- Available in mixed berry blast flavour
- Osmolality (at 0.96 kcal/mL): 2460 mOsm/kg H_2O

Indications:

- Maple syrup urine disease (MSUD)

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

Ordering Information:

Product Code	Product Packaging	Calories Per Pouch
82112	30 X 125 mL (4.2 oz)	120

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

Nutrition Information:

Nutrients	Per Pouch (125 mL)	Per 10 g Protein Equivalent
Calories	120	60
Protein Equivalent, g	20.0	10.0
Fat, g	0.44	0.22
DHA, mg	150	75.0
Carbohydrate, g	9.3	4.7
Fibre, g	0.50	0.25
Amino Acids, g		
L-Alanine	1.40	0.70
L-Arginine	1.90	0.95
L-Aspartic Acid	1.45	0.73
L-Cystine	1.20	0.60
Glycine	1.90	0.95
L-Histidine	1.00	0.50
L-Isoleucine	Trace*	Trace*
L-Leucine	Trace*	Trace*
L-Lysine	1.78	0.89
L-Methionine	0.43	0.22
L-Phenylalanine	1.18	0.59
L-Proline	2.38	1.19
L-Serine	1.65	0.83
L-Threonine	1.30	0.65
L-Tryptophan	0.53	0.27
L-Tyrosine	2.00	1.00
L-Valine	Trace*	Trace*
L-Carnitine	0.01	0.01
Taurine	0.06	0.03

Vitamins	Per Pouch (125 mL)	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	949 (285)	475 (143)
Vitamin D_3, IU (mcg)	320 (8.0)	160 (4.0)
Vitamin E, IU (mg α-TE)	4.8 (3.2)	2.4 (1.6)
Vitamin K, mcg	24.9	12.5
Thiamine, mg	0.54	0.27
Riboflavin, mg	0.50	0.25
Vitamin B_6, mg	0.58	0.29
Vitamin B_{12}, mcg	1.8	0.90
Niacin, mg	7.1	3.6
Folic Acid, mcg	120	60.0
Pantothenic Acid, mg	1.8	0.9
Biotin, mcg	53.4	26.7
Vitamin C, mg	17.8	8.9
Choline, mg	153	76.5
Inositol, mg	40.6	20.3
Minerals		
Calcium, mg	319	160
Phosphorus, mg	244	122
Magnesium, mg	96.3	48.2
Iron, mg	5.1	2.6
Zinc, mg	3.8	1.9
Manganese, mg	0.56	0.28
Copper, mcg	563	282
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	<25.0	<12.5
Potassium, mg	90.0	45.0
Chloride, mg	<25.0	<12.5

Ingredients:

Water, Apple Juice from Concentrate (34.1%), Grape Juice from Concentrate (6.9%), Blackcurrant Juice from Concentrate (2.5%), L-Lysine Acetate, L-Proline, Citric Acid, L-Tyrosine, L-Arginine, Glycine, L-Serine, L-Aspartic Acid, L-Alanine, L-Threonine, Corn Syrup Solids, L-Cystine, L-Phenylalanine, Dicalcium Phosphate, L-Histidine, Elderberry Juice from Concentrate (0.6%), Maltodextrin, Magnesium Acetate, N-Acetyl L-Methionine, L-Tryptophan, Choline Bitartrate, *C. cohnii Oil***, Sugar, Microcrystalline Cellulose, Natural Flavor, Fruit Concentrate (Apple, Blackcurrant, Radish), L-Ascorbic Acid, Taurine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate (preservative to delay spoilage), Artificial Sweetener: Sucralose[£], Ferrous Lactate, Artificial Sweetener: Acesulfame Potassium[‡], Sodium Benzoate (preservative to delay spoilage), Zinc Sulfate, L-Carnitine, Niacinamide, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Mixed Tocopherols, Sodium Molybdate, D-Biotin, Sodium Selenite, Chromium Chloride, Phylloquinone, Vitamin D_3, Cyanocobalamin.

**A Source of Docosahexaenoic Acid (DHA).

[£]Contains 31.3 mg sucralose per 125 mL

[‡]Contains 25 mg acesulfame potassium per 125 mL

CONTAINS: 44.1% juice.

IVA Anamix® Next

A leucine-free powdered formula 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-fibre 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 flavour
- Osmolality (at1.1 kcal/mL):
  1220 mOsm/kg H_2O
  Based on dilution of 36 g powder (approx. 4 scoops) to 100 mL (3.5 fl oz) water
- Displacement: 0.72 mL/g

Indications:

- Isovaleric acidemia

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
89471	6 x 400 g (14 oz)	1508

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	377	135
Protein Equivalent, g	28.0	10.0
Fat, g	12.5	4.5
Saturated, g	2.0	0.71
Monounsaturated, g	8.2	2.9
Polyunsaturated, g	1.8	0.64
DHA, mg	180	64.3
Carbohydrate, g	41.2	14.7
Fibre, g	11.2	4.0
Soluble, g	8.0	2.9
Insoluble, g	3.2	1.1
Amino Acids, g		
L-Alanine	1.35	0.48
L-Arginine	2.35	0.84
L-Aspartic Acid	2.00	0.71
L-Cystine	0.94	0.34
L-Glutamic acid	1.88	0.67
L-Glutamine	3.16	1.13
Glycine	4.60	1.64
L-Histidine	1.40	0.50
L-Isoleucine	0.92	0.33
L-Leucine	Nil Added	Nil Added
L-Lysine	2.20	0.79
L-Methionine	0.64	0.23
L-Phenylalanine	1.70	0.61
L-Proline	4.10	1.46
L-Serine	1.45	0.52
L-Threonine	1.50	0.54
L-Tryptophan	0.58	0.21
L-Tyrosine	1.70	0.61
L-Valine	1.04	0.36
L-Carnitine	0.02	0.01
Taurine	0.06	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1748 (525)	628 (187)
Vitamin D_3, IU (mcg)	1052 (26.3)	379 (9.4)
Vitamin E, IU (mg α-TE)	15.6 (10.5)	5.6 (3.8)
Vitamin K, mcg	17.5	6.3
Thiamine, mg	0.91	0.32
Riboflavin, mg	0.91	0.33
Vitamin B_6, mg	0.91	0.33
Vitamin B_{12}, mcg	1.6	0.57
Niacin, mg	2.5	0.89
Folic Acid, mcg	263	93.9
Pantothenic Acid, mg	5.3	1.9
Biotin, mcg	14.0	5.0
Vitamin C, mg	52.5	18.8
Choline, mg	280	100
Inositol, mg	70.0	25.0
Minerals		
Calcium, mg	1225	437
Phosphorus, mg	801	286
Magnesium, mg	140	50.0
Iron, mg	12.5	4.5
Zinc, mg	6.1	2.2
Manganese, mg	1.2	0.43
Copper, mcg	700	250
Iodine, mcg	174	62.1
Molybdenum, mcg	31.9	11.4
Chromium, mcg	12.8	4.6
Selenium, mcg	35.3	12.6
Sodium, mg	350	125
Potassium, mg	556	198
Chloride, mg	508	181

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 Fibre, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Ascorbyl Palmitate, Potassium Iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-alpha Tocopherol, Vitamin D_3, Phylloquinone, D-Biotin, Cyanocobalamin.

CONTAINS: Coconut Oil, Soy.

**A source of docosahexaenoic acid (DHA)

XLeu Maxamum®

A leucine-free powdered formula 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 flavour
- Contains <1 g of fat per 10 g protein equivalent thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg H_2O):
  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 Information:

Product Code	Product Packaging	Calories Per Can
49816	6 x 454 g (1 lb)	1385

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	305	76
Protein Equivalent, g	40	10
Fat, g	<1	<0.25
Carbohydrate, g	34	8.5
Amino Acids, g		
L-Alanine	2.2	0.55
L-Arginine	3.6	0.90
L-Aspartic Acid	3.0	0.75
L-Cystine	1.3	0.33
L-Glutamic Acid	3.9	0.98
Glycine	6.3	1.6
L-Histidine	2.1	0.53
L-Isoleucine	1.2	0.30
L-Leucine	Nil Added	Nil Added
L-Lysine	3.0	0.75
L-Methionine	0.86	0.22
L-Phenylalanine	2.3	0.58
L-Proline	6.3	1.58
L-Serine	1.9	0.48
L-Threonine	2.1	0.53
L-Tryptophan	0.79	0.20
L-Tyrosine	2.3	0.58
L-Valine	1.4	0.35
L-Carnitine	0.04	0.01
Taurine	0.14	0.04
L-Glutamine	0.32	0.08

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	2228 (669)	557 (167)
Vitamin D_3, IU (mcg)	332 (8.3)	83.0 (2.1)
Vitamin E, IU (mg α-TE)	18.3 (12.3)	4.6 (3.1)
Vitamin K, mcg	82	20.5
Thiamine, mg	0.91	0.23
Riboflavin, mg	0.97	0.24
Vitamin B_6, mg	1.6	0.40
Vitamin B_{12}, mcg	3.1	0.78
Niacin, mg	5.7	1.4
Folic Acid, mcg	491	123
Pantothenic Acid, mg	4.9	1.2
Biotin, mcg	24.5	6.1
Vitamin C, mg	62.0	15.5
Choline, mg	430	108
Inositol, mg	80.0	20.0
Minerals		
Calcium, mg	1183	296
Phosphorus, mg	1137	284
Magnesium, mg	306	76.5
Iron, mg	14.7	3.7
Zinc, mg	9.0	2.3
Manganese, mg	1.8	0.45
Copper, mcg	820	205
Iodine, mcg	131	32.8
Molybdenum, mcg	37.0	9.3
Chromium, mcg	26.0	6.5
Selenium, mcg	58.0	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 Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Colors (Beta-Carotene, Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

CONTAINS: Soy.

XLys, XTrp Analog™

A lysine- and tryptophan-free powdered infant formula for the dietary management of glutaric aciduria type I (GA-1).

Main Features:

- Lysine and tryptophan free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, minerals and trace elements (including iron, selenium and chromium)
- Provides 13 g of protein equivalent per 100 g of powder
- Unflavoured
- Osmolality (at 15% w/v): 377 mOsm/kg H_2O
- Displacement: 0.70 mL/g

Indications:

- Glutaric aciduria type I

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
49854	6 x 400 g (14 oz)	1900

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	475	365
Protein Equivalent, g	13.0	10.0
Fat, g	20.9	16.1
Saturated, g	6.8	5.2
Monounsaturated, g	9.5	7.3
Polyunsaturated, g	3.6	2.8
Linoleic Acid, mg	3025	2330
Carbohydrate, g	59.0	45.4
Amino Acids, g		
L-Alanine	0.61	0.47
L-Arginine	1.10	0.85
L-Aspartic Acid	0.90	0.69
L-Cystine	0.43	0.33
L-Glutamic Acid	1.10	0.85
Glycine	1.00	0.77
L-Histidine	0.65	0.50
L-Isoleucine	1.03	0.79
L-Leucine	1.75	1.35
L-Lysine	Nil Added	Nil Added
L-Methionine	0.27	0.21
L-Phenylalanine	0.77	0.59
L-Proline	1.24	0.95
L-Serine	0.77	0.59
L-Threonine	0.86	0.66
L-Tryptophan	Nil Added	Nil Added
L-Tyrosine	0.77	0.59
L-Valine	1.12	0.86
L-Carnitine	0.01	0.01
Taurine	0.02	0.02
L-Glutamine	0.10	0.08

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1760 (528)	1354 (406)
Vitamin D_3, IU (mcg)	340 (8.5)	262 (6.5)
Vitamin E, IU (mg α-TE)	4.9 (3.3)	3.8 (2.5)
Vitamin K, mcg	21.0	16.1
Thiamine, mcg	500	385
Riboflavin, mcg	600	462
Vitamin B_6, mcg	520	400
Vitamin B_{12}, mcg	1.25	0.96
Niacin, mcg	4500	3462
Folic Acid, mcg	38.0	29.2
Pantothenic Acid, mcg	2600	2000
Biotin, mcg	26.0	20.0
Vitamin C, mg	40.0	30.8
Choline, mg	50.0	38.5
Inositol, mg	100	76.9
Minerals		
Calcium, mg	600	462
Phosphorus, mg	500	385
Magnesium, mg	40.0	30.8
Iron, mg	10.0	7.7
Zinc, mg	8.0	6.2
Manganese, mcg	600	462
Copper, mcg	450	346
Iodine, mcg	47.0	36.1
Molybdenum, mcg	15.0	11.5
Chromium, mcg	15.0	11.5
Selenium, mcg	15.0	11.5
Sodium, mg	120	92.3
Potassium, mg	420	323
Chloride, mg	290	223

Ingredients:

Corn Syrup Solids, Hybrid Safflower Oil, Refined Vegetable Oil (Coconut, Soy), Calcium Phosphate Dibasic, L-Leucine, L-Glutamic Acid, L-Proline, L-Arginine, L-Valine, Glycine, L-Isoleucine, L-Aspartic Acid, Galactose, L-Threonine, Tripotassium Citrate, L-Phenylalanine, L-Tyrosine, L-Serine, Calcium Phosphate Monobasic, L-Alanine, L-Histidine, Mono and Diglycerides, L-Cystine, Sodium Chloride, L-Methionine, Magnesium Acetate, Potassium Chloride, Diacetyl Tartaric Acid Esters of Monoglycerides, Tricalcium Citrate, L-Glutamine, Choline Bitartrate, M-Inositol, L-Ascorbic Acid, Soy Lecithin, Calcium Phosphate Tribasic, Ferrous Sulfate, Zinc Sulfate, Taurine, L-Carnitine, Nicotinamide, DL-Alpha Tocopheryl Acetate, Calcium Pantothenate, Manganese Sulfate, Cupric Sulfate, Vitamin A Acetate, Pyridoxine Hydrochloride, Riboflavin, Thiamine Chloride Hydrochloride, Chromium Sulfate, Potassium Iodide, Folic Acid, Sodium Molybdate, Phylloquinone, Biotin, Sodium Hydrogen Selenite, Vitamin D_3, Cyanocobalamin.

GlutarAde® Junior

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

Main Features:

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

Indications:

- Glutaric aciduria type I

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
120904	4 x 400 g (14.1 oz)	1640

† Strauss KA, et al. Mol Genet Metab. 2011.

Nutrition Information:

Nutrients	Per 100 g	Per 100 Cal (24.4 g powder)
Calories	410	100
Protein Equivalent, g	10.0	2.5
Fat, g	10.0	2.5
Saturated Fat, g	2.2	0.55
Monounsaturated Fat, g	5.2	1.3
Polyunsaturated Fat, g	2.6	0.63
Linoleic Acid, mg	1487	363
α-Linolenic Acid, mg	815	199
Carbohydrate, g	69.0	17.0
Amino Acids, g		
L-Alanine	0.48	0.12
L-Arginine	1.08	0.26
L-Asparagine	0.72	0.18
L-Cystine	0.18	0.04
L-Glutamic Acid	0.36	0.09
L-Glutamine	1.80	0.44
Glycine	0.24	0.06
L-Histidine	0.36	0.09
L-Isoleucine	0.84	0.21
L-Leucine	1.38	0.34
L-Lysine	Nil Added	Nil Added
L-Methionine	0.41	0.10
L-Ornithine	0.24	0.06
L-Phenylalanine	0.64	0.16
L-Proline	0.60	0.15
L-Serine	0.24	0.06
L-Threonine	0.64	0.16
L-Tryptophan	0.06	0.01
L-Tyrosine	0.72	0.18
L-Valine	0.96	0.23
L-Carnitine	0.03	0.01
Taurine	0.06	0.01

Vitamins	Per 100 g	Per 100 Cal (24.4 g powder)
Vitamin A, IU (mcg RE)	1373 (412)	335 (101)
Vitamin D_3, IU (mcg)	525 (13.1)	128 (3.2)
Vitamin E, IU (mg α-TE)	8.5 (5.7)	2.1 (1.4)
Vitamin K, mcg	34.0	8.3
Thiamine, mg	0.83	0.20
Riboflavin, mg	0.69	0.17
Vitamin B_6, mg	0.66	0.16
Vitamin B_{12}, mcg	1.4	0.35
Niacin, mg	6.6	1.6
Folic Acid, mcg	150	37.0
Pantothenic Acid, mg	6.0	1.5
Biotin, mcg	31.0	7.6
Vitamin C, mg	56.0	13.6
Choline, mg	213	52.0
Inositol, mg	125	30.0
Minerals		
Calcium, mg	460	112
Phosphorus, mg	400	97.6
Magnesium, mg	60.0	14.6
Iron, mg	8.0	2.0
Zinc, mg	7.0	1.6
Manganese, mg	0.43	0.10
Copper, mcg	500	122
Iodine, mcg	90.0	22.0
Molybdenum, mcg	18.0	4.4
Chromium, mcg	12.0	2.9
Selenium, mcg	40.0	9.7
Sodium, mg	221	54.0
Potassium, mg	589	144
Chloride, mg	332	81.0

Ingredients:

Corn Syrup Solids, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Natural and Artificial Flavor. Contains 2% or less of the following: L-Glutamine, L-Leucine, Tricalcium Phosphate, L-Arginine, L-Valine, Coconut Oil, Soybean Oil, L-Isoleucine, L-Asparagine Monohydrate, Dipotassium Phosphate, Flaxseed Oil, L-Tyrosine, L-Phenylalanine, L-Threonine, L-Proline, Choline Bitartrate, Potassium Chloride, L-Ornithine-Alpha Ketoglutarate, L-Alanine, Magnesium Phosphate, L-Methionine, L-Glutamic Acid, L-Histidine, Glycine, L-Serine, Ascorbyl Palmitate, Sodium Citrate, Mixed Tocopherols, Rosemary Extract, L-Cystine, Sodium Chloride, Inositol, Silicon Dioxide, Ascorbic Acid, L-Tryptophan, Taurine, Ferrous Sulfate, Calcium Phosphate, L-Carnitine, Zinc Sulfate, Vitamin E Acetate, Niacinamide, Calcium D-Pantothenate, Mono- and Diglycerides, Vitamin A Palmitate, Vitamin D_3, Copper Gluconate, Vitamin K_1, D-Biotin, Manganese Sulfate, Sodium Selenite, Thiamine Mononitrate, Pyridoxine Hydrochloride, Riboflavin, Potassium Iodide, Chromium Chloride, Folic Acid, Vitamin B_{12}, Sodium Molybdate.

CONTAINS: Coconut Oil, Soybean Oil.

GlutarAde® Essential

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

Main Features:

- Lysine free
- Amino acid profile specifically designed for GA-1; clinically researched in one study†
- 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
- Vanilla flavour
- Osmolality (at 0.64 kcal/mL): 797 mOsm/kg H_2O
  Based on dilution of 40 g powder (1 scoop) to 210 mL (7 fl oz) water
- Displacement: 0.75 mL/g

Indications:

- Glutaric aciduria type I

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
120462	4 x 454 g (1 lb)	1748

† Strauss KA, et al. Mol Genet Metab. 2011.

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Calories	385	154
Protein Equivalent, g	25.0	10.0
Fat, g	13.0	5.0
Saturated Fat, g	3.1	1.2
Monounsaturated Fat, g	6.9	2.8
Polyunsaturated Fat, g	2.9	1.2
Linoleic Acid, mg	1936	774
α-Linolenic Acid, mg	730	292
Carbohydrate, g	45.0	18.0
Fiber, g	3.9	1.5
Amino Acids, g		
L-Alanine	1.2	0.48
L-Arginine	2.7	1.1
L-Asparagine	1.8	0.72
L-Cystine	0.45	0.18
L-Glutamic Acid	0.90	0.36
L-Glutamine	4.5	1.8
Glycine	0.60	0.24
L-Histidine	0.90	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-Ornithine	0.60	0.24
L-Phenylalanine	1.6	0.64
L-Proline	1.5	0.60
L-Serine	0.60	0.24
L-Threonine	1.6	0.64
L-Tryptophan	0.15	0.06
L-Tyrosine	1.8	0.72
L-Valine	2.4	0.96
L-Carnitine	0.04	0.01
Taurine	0.15	0.06

Vitamins	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Vitamin A, IU (mcg RE) (25% as beta-carotene)	1700 (637)	680 (255)
Vitamin D_3, IU (mcg)	600 (15.0)	240 (6.0)
Vitamin E, IU (mg α-TE)	19.1 (12.8)	7.6 (5.1)
Vitamin K, mcg	70.0	28.0
Thiamine, mg	1.5	0.60
Riboflavin, mg	1.5	0.60
Vitamin B_6, mg	1.4	0.56
Vitamin B_{12}, 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
Minerals:		
Calcium, mg	1257	503
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	8.6
Selenium, mcg	63.0	25.0
Sodium, mg	384	154
Potassium, mg	874	350
Chloride, mg	475	190

Ingredients:

Sugar, Modified Corn Starch, Canola Oil, Maltodextrin, Safflower Oil, Dextrin, L-Glutamine, L-Leucine, Natural and Artificial Flavor, L-Arginine, Dicalcium Phosphate, L-Valine, L-Isoleucine, L-Asparagine Monohydrate. Contains 2% or less of the following: L-Tyrosine, Tricalcium Phosphate, L-Phenylalanine, L-Threonine, L-Proline, Potassium Citrate, L-Ornithine-Alpha Ketoglutarate, L-Alanine, Coconut Oil, Soybean Oil, L-Methionine, Sodium Citrate, Potassium Chloride, L-Glutamic Acid, L-Histidine, Choline Bitartrate, Glycine, L-Serine, L-Cystine, Flaxseed Oil, Magnesium Oxide, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Silicon Dioxide, L-Tryptophan, Taurine, Sodium Chloride, Ascorbic Acid, Inositol, Ferric Orthophosphate, Vitamin E Acetate, L-Carnitine, Niacinamide, Calcium Phosphate, Zinc Oxide, Sucralose*, D-Calcium Pantothenate, Copper Gluconate, Vitamin K_1, Vitamin D_3, Manganese Sulfate, Vitamin A Palmitate, Mono- and Diglycerides, D-Biotin, Beta-carotene, Pyridoxine Hydrochloride, Potassium Iodide, Riboflavin, Thiamine Mononitrate, Sodium Selenite, Folic Acid, Vitamin B_{12}, Chromium Chloride, Sodium Molybdate.

CONTAINS: Coconut Oil, Soybean Oil.

*Contains 4 mg sucralose per 40 g powder

GlutarAde® Amino Acid Blend

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

Main Features:

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

Indications:

- Glutaric aciduria type I

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
120461	4 x 454 g (1 lb)	1471

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent (1 scoop)
Calories	324	40
Protein Equivalent, g	81.0	10.0
Fat, g	0	0
Carbohydrate, g	0	0
Sodium, mg	355	44.0

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

Ingredients:

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

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

† Strauss KA, et al. Mol Genet Metab. 2011.

XMet Analog™

A methionine-free powdered infant formula for the dietary management of vitamin B_6 non-responsive homocystinuria or hypermethioninemia.

Main Features:

- Methionine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, minerals and trace elements (including iron, selenium and chromium)
- Provides 13 g of protein equivalent per 100 g of powder
- Unflavoured
- Osmolality (at 15% w/v): 377 mOsm/kg H_2O
- Displacement: 0.70 mL/g

Indications:

- Vitamin B_6 non-responsive homocystinuria
- Hypermethioninemia

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
49853	6 x 400 g (14 oz)	1900

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	475	365
Protein Equivalent, g	13.0	10.0
Fat, g	20.9	16.1
Saturated, g	6.8	5.2
Monounsaturated, g	9.5	7.3
Polyunsaturated, g	3.6	2.8
Linoleic Acid, mg	3025	2330
Carbohydrate, g	59.0	45.4
Amino Acids, g		
L-Alanine	0.50	0.38
L-Arginine	1.00	0.77
L-Aspartic Acid	0.80	0.62
L-Cystine	0.39	0.30
L-Glutamic Acid	1.14	0.88
Glycine	0.93	0.72
L-Histidine	0.60	0.46
L-Isoleucine	0.93	0.72
L-Leucine	1.59	1.22
L-Lysine	1.08	0.83
L-Methionine	Nil Added	Nil Added
L-Phenylalanine	0.70	0.54
L-Proline	1.12	0.86
L-Serine	0.69	0.53
L-Threonine	0.78	0.62
L-Tryptophan	0.31	0.24
L-Tyrosine	0.80	0.62
L-Valine	1.01	0.78
L-Carnitine	0.01	0.01
Taurine	0.02	0.02
L-Glutamine	0.10	0.08

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1760 (528)	1354 (406)
Vitamin D_3, IU (mcg)	340 (8.5)	262 (6.5)
Vitamin E, IU (mg α-TE)	4.9 (3.3)	3.8 (2.5)
Vitamin K, mcg	21.0	16.1
Thiamine, mcg	500	385
Riboflavin, mcg	600	462
Vitamin B_{12}, mcg	520	400
Vitamin B_{12}, mcg	1.25	0.96
Niacin, mcg	4500	3462
Folic Acid, mcg	38.0	29.2
Pantothenic Acid, mcg	2600	2000
Biotin, mcg	26.0	20.0
Vitamin C, mg	40.0	30.8
Choline, mg	50.0	38.5
Inositol, mg	100	76.9
Minerals		
Calcium, mg	600	462
Phosphorus, mg	500	385
Magnesium, mg	40.0	30.8
Iron, mg	10.0	7.7
Zinc, mg	8.0	6.2
Manganese, mcg	600	462
Copper, mcg	450	346
Iodine, mcg	47.0	36.1
Molybdenum, mcg	15.0	11.5
Chromium, mcg	15.0	11.5
Selenium, mcg	15.0	11.5
Sodium, mg	120	92.3
Potassium, mg	420	323
Chloride, mg	290	223

Ingredients:

Corn Syrup Solids, Hybrid Safflower Oil, Refined Vegetable Oil (Coconut, Soy), L-Lysine L-Glutamate, Calcium Phosphate Dibasic, L-Leucine, L-Proline, L-Arginine, L-Valine, Glycine, L-Isoleucine, Galactose, L-Aspartic Acid, Tripotassium Citrate, L-Threonine, L-Phenylalanine, L-Tyrosine, L-Serine, Calcium Phosphate Monobasic, L-Alanine, L-Histidine, Mono and Diglycerides, L-Cystine, L-Tryptophan, Sodium Chloride, Magnesium Acetate, Potassium Chloride, Diacetyl Tartaric Acid Esters of Monoglycerides, Tricalcium Citrate, L-Glutamine, Choline Bitartrate, M-Inositol, L-Ascorbic Acid, Soy Lecithin, L-Glutamic Acid, Calcium Phosphate Tribasic, Ferrous Sulfate, Zinc Sulfate, Taurine, L-Carnitine, Nicotinamide, DL-Alpha Tocopheryl Acetate, Calcium Pantothenate, Manganese Sulfate, Cupric Sulfate, Vitamin A Acetate, Pyridoxine Hydrochloride, Riboflavin, Thiamine Chloride Hydrochloride, Chromium Sulfate, Potassium Iodide, Folic Acid, Sodium Molybdate, Phylloquinone, D-Biotin, Sodium Hydrogen Selenite, Vitamin D_3, Cyanocobalamin.

HCU Anamix® Next

A methionine-free powdered formula 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-fibre 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 flavour
- Osmolality (at 1.1 kcal/mL): 1340 mOsm/kg H_2O
  Based on dilution of 36 g of powder (approx 4 scoops) to 100 mL (3.5 fl oz)
- Displacement: 0.72 mL/g

Indications:

- Homocystinuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
89470	6 x 400 g	1540

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	385	137
Protein Equivalent, g	28.0	10.0
Fat, g	12.5	4.5
Saturated, g	2.0	0.71
Monounsaturated, g	8.2	2.9
Polyunsaturated, g	1.8	0.64
DHA, mg	180	64.3
Carbohydrate, g	43.2	15.4
Fibre , g	11.2	4.0
Soluble, g	8.0	2.9
Insoluble, g	3.2	1.1
Amino Acids, g		
L-Alanine	1.40	0.50
L-Arginine	2.25	0.80
L-Aspartic Acid	2.00	0.71
L-Cystine	1.50	0.54
L-Glutamine	2.60	0.93
Glycine	2.13	0.76
L-Histidine	1.22	0.44
L-Isoleucine	2.10	0.75
L-Leucine	3.46	1.24
L-Lysine	2.44	0.87
L-Methionine	Nil Added	Nil Added
L-Phenylalanine	1.50	0.54
L-Proline	2.52	0.90
L-Serine	1.57	0.56
L-Threonine	2.00	0.71
L-Tryptophan	0.50	0.18
L-Tyrosine	1.60	0.57
L-Valine	2.30	0.82
L-Carnitine	0.02	0.01
Taurine	0.05	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1399(420)	500(150)
Vitamin D_3, IU (mcg)	840(21.0)	300(7.5)
Vitamin E, IU (mg α-TE)	12.5 (8.4)	4.5 (3.0)
Vitamin K, mcg	14.0	5.0
Thiamine, mg	0.73	0.28
Riboflavin, mg	0.73	0.26
Vitamin B_6, mg	0.73	0.26
Vitamin B_{12}, mcg	1.3	0.46
Niacin, mg	2.0	0.71
Folic Acid, mcg	210	75.0
Pantothenic Acid, mg	4.2	1.5
Biotin, mcg	11.2	4.0
Vitamin C, mg	42.0	15.0
Choline, mg	224	80.0
Inositol, mg	56.0	20.0
Minerals		
Calcium, mg	980	350
Phosphorus, mg	641	229
Magnesium, mg	113	40.3
Iron, mg	10.0	3.6
Zinc, mg	4.9	1.8
Manganese, mg	0.92	0.33
Copper, mcg	560	200
Iodine, mcg	139	49.6
Molybdenum, mcg	25.5	9.1
Chromium, mcg	10.2	3.6
Selenium, mcg	28.2	10.1
Sodium, mg	280	100
Potassium, mg	445	159
Chloride, mg	406	145

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 Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Folic Acid, Potassium Iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-Alpha Tocopherol, Vitamin D_3, Phylloquinone, D-Biotin, Cyanocobalamin

CONTAINS: Coconut Oil, Soy.

**A source of docosahexaenoic acid (DHA)

XMet Maxamum®

A methionine-free powdered formula for the dietary management of vitamin B_6 non-responsive homocystinuria or hypermethioninemia in older children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Methionine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- Provides 40 g of protein equivalent per 100 g of powder
- Available in orange flavour
- Contains <1 g of fat per 10 g protein equivalent thereby allowing greater flexibility in modifying energy intake
- Osmolality (mOsm/kg H_2O):
  Dilution
  1 to 7 800
  1 to 5 1190
- Displacement: 0.6 mL/g

Indications:

- Vitamin B_6 non-responsive homocystinuria
- Hypermethioninemia

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
49821	6 x 454 g (1 lb)	1385

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	305	76
Protein Equivalent, g	40.0	10.0
Fat, g	<1	<0.25
Carbohydrate, g	34.0	8.5
Amino Acids, g		
L-Alanine	1.8	0.45
L-Arginine	3.2	0.80
L-Aspartic Acid	2.7	0.68
L-Cystine	1.2	0.30
L-Glutamic Acid	3.6	0.90
Glycine	2.8	0.70
L-Histidine	1.8	0.45
L-Isoleucine	2.8	0.70
L-Leucine	4.9	1.23
L-Lysine	3.3	0.83
L-Methionine	Nil Added	Nil Added
L-Phenylalanine	2.2	0.55
L-Proline	3.4	0.85
L-Serine	2.1	0.53
L-Threonine	2.4	0.60
L-Tryptophan	0.95	0.24
L-Tyrosine	2.2	0.55
L-Valine	3.1	0.78
L-Carnitine	0.04	0.01
Taurine	0.14	0.04
L-Glutamine	0.32	0.08

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	2228 (669)	557 (167)
Vitamin D_3, IU (mcg)	332 (8.3)	83.0 (2.1)
Vitamin E, IU (mg α TE)	18.3 (12.3)	4.6 (3.1)
Vitamin K, mcg	82.0	20.5
Thiamine, mg	0.91	0.23
Riboflavin, mg	0.97	0.24
Vitamin B_6, mg	1.6	0.40
Vitamin B_{12}, mcg	3.1	0.78
Niacin, mg	5.7	1.4
Folic Acid, mcg	491	123
Pantothenic Acid, mg	4.9	1.2
Biotin, mcg	24.5	6.1
Vitamin C, mg	62.0	15.5
Choline, mg	430	108
Inositol, mg	80.0	20.0
Minerals		
Calcium, mg	1183	296
Phosphorus, mg	1137	284
Magnesium, mg	306	76.5
Iron, mg	14.7	3.7
Zinc, mg	9.0	2.3
Manganese, mg	1.8	0.45
Copper, mcg	820	205
Iodine, mcg	131	32.8
Molybdenum, mcg	37.0	9.3
Chromium, mcg	26.0	6.5
Selenium, mcg	58.0	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 Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Colors (Beta-Carotene, Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

CONTAINS: Soy.

HCU Lophlex® LQ

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

Main Features:

- Methionine free
- Low volume; provides 20 g protein equivalent in just 125 mL (4.2 fl oz)
- Convenient ready-to-drink
- Based on fruit juices (from concentrate) with natural flavour - no artificial flavours
- Contains a balanced mixture of other essential and non-essential amino acids, carbohydrates, vitamins, minerals and DHA
- Provides 150 mg of DHA per pouch
- Available in mixed berry blast flavour
- Osmolality: 2460 mOsm/kg H_2O

Indications:

- Homocystinuria

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

Ordering Information:

Product Code	Product Packaging	Calories Per Pouch
82111	30 x 125 mL (4.2 fl oz)	120

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

Nutrition Information:

Nutrients	Per Pouch (125 mL)	Per 10 g Protein Equivalent
Calories	120	60
Protein Equivalent, g	20.0	10.0
Fat, g	0.44	0.22
DHA, mg	150	75.0
Carbohydrate, g	9.3	4.7
Fibre, g	0.50	0.25
Amino Acids, g		
L-Alanine	1.18	0.59
L-Arginine	1.50	0.75
L-Aspartic Acid	1.73	0.87
L-Cystine	0.98	0.49
Glycine	1.60	0.80
L-Histidine	0.85	0.43
L-Isoleucine	1.35	0.68
L-Leucine	2.30	1.15
L-Lysine	1.55	0.78
L-Methionine	Trace*	Trace*
L-Phenylalanine	1.00	0.50
L-Proline	2.03	1.02
L-Serine	1.38	0.69
L-Threonine	1.13	0.57
L-Tryptophan	0.45	0.23
L-Tyrosine	1.65	0.83
L-Valine	1.45	0.73
L-Carnitine	0.01	0.01
Taurine	0.06	0.03

Vitamins	Per Pouch (125 mL)	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	949 (285)	475 (143)
Vitamin D_3, IU (mcg)	320 (8.0)	160 (4.0)
Vitamin E, IU (mg α-TE)	4.8 (3.2)	2.4 (1.6)
Vitamin K, mcg	24.9	12.5
Thiamine, mg	0.54	0.27
Riboflavin, mg	0.50	0.25
Vitamin B_6, mg	0.58	0.29
Vitamin B_{12}, mcg	1.8	0.90
Niacin, mg	7.1	3.6
Folic Acid, mcg	120	60.0
Pantothenic Acid, mg	1.8	0.9
Biotin, mcg	53.4	26.7
Vitamin C, mg	17.8	8.9
Choline, mg	153	76.5
Inositol, mg	40.6	20.3
Minerals		
Calcium, mg	319	160
Phosphorus, mg	244	122
Magnesium, mg	96.3	48.2
Iron, mg	5.1	2.6
Zinc, mg	3.8	1.9
Manganese, mg	0.56	0.28
Copper, mcg	563	282
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	<25.0	<12.5
Potassium, mg	90.0	45.0
Chloride, mg	<25.0	<12.5

Ingredients:

Water, Apple Juice from Concentrate (34.1%), Grape Juice from Concentrate (6.9%), Blackcurrant Juice from Concentrate (2.5%), L-Arginine L-Aspartate, L-Leucine, L-Lysine Acetate, Citric Acid, L-Proline, L-Tyrosine, Glycine, L-Valine, L-Serine, L-Isoleucine, Corn Syrup Solids, Dicalcium Phosphate, L-Alanine, L-Threonine, L-Phenylalanine, L-Cystine, L-Histidine, Elderberry Juice from Concentrate (0.6%), Maltodextrin, Magnesium L-Aspartate, Magnesium Acetate, L-Tryptophan, Choline Bitartrate, *C. Cohnii Oil***, Sugar, Microcrystalline Cellulose, Natural Flavor, Fruit Concentrate (Apple, Blackcurrant, Radish), L-Ascorbic Acid, Taurine, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate (preservative to delay spoilage), Artificial Sweetener: Sucralose§, Artificial Sweetener: Acesulfame Potassium†, Ferrous Lactate, Sodium Benzoate (preservative to delay spoilage), Zinc Sulfate, L-Carnitine, Niacinamide, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Mixed Tocopherols, Sodium Molybdate, D-Biotin, Sodium Selenite, Chromium Chloride, Phylloquinone, Vitamin D_3, Cyanocobalamin.

**A Source of Docosahexaenoic Acid (DHA)

§Contains 31.3 mg sucralose per 125 mL

†Contains 25 mg acesulfame potassium per 125 mL

CONTAINS: 44.1% juice.

MMA/PA Anamix® Next

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

Main Features:

- Methionine, threonine, valine free
- Low isoleucine
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate (including a multi-fibre 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 flavour
- Osmolality (at 1.1 kcal/mL): 1220 mOsm/kg H_2O
  Based on dilution of 36 g powder (approx 4 scoops) to 100 mL (3.5 fl oz) 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 Information:

Product Code	Product Packaging	Calories Per Can
89472	6 x 400 g	1508

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	377	135
Protein Equivalent, g	28.0	10.0
Fat, g	12.5	4.5
Saturated, g	2.0	0.71
Monounsaturated, g	8.2	2.9
Polyunsaturated, g	1.8	0.64
DHA, mg	180	64.3
Carbohydrate, g	41.2	14.7
Fibre, g	11.2	4.0
Soluble, g	8.0	2.9
Insoluble, g	3.2	1.1
Amino Acids, g		
L-Alanine	3.42	1.22
L-Arginine	3.00	1.07
L-Aspartic Acid	2.72	0.97
L-Cystine	1.56	0.56
L-Glutamine	3.61	1.29
Glycine	1.37	0.49
L-Histidine	2.02	0.72
L-Isoleucine	<0.03	<0.01
L-Leucine	4.54	1.62
L-Lysine	3.05	1.09
L-Methionine	Nil Added	Nil Added
L-Phenylalanine	1.99	0.71
L-Proline	1.37	0.49
L-Serine	1.98	0.71
L-Threonine	Nil Added	Nil Added
L-Tryptophan	0.69	0.25
L-Tyrosine	1.99	0.71
L-Valine	Nil Added	Nil Added
L-Carnitine	0.02	0.01
Taurine	0.06	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1748 (525)	624 (187)
Vitamin D_3, IU (mcg)	1052 (26.3)	376 (9.4)
Vitamin E, IU (mg α-TE)	15.6 (10.5)	5.6 (3.7)
Vitamin K, mcg	17.5	6.2
Thiamine, mg	0.91	0.32
Riboflavin, mg	0.91	0.32
Vitamin B_6, mg	0.91	0.32
Vitamin B_{12}, mcg	1.6	0.57
Niacin, mg	2.5	0.89
Folic Acid, mcg	263	93.9
Pantothenic Acid, mg	5.3	1.9
Biotin, mcg	14.0	5.0
Vitamin C, mg	52.5	18.7
Choline, mg	280	100
Inositol, mg	70.0	25.0
Minerals		
Calcium, mg	1225	437
Phosphorus, mg	801	286
Magnesium, mg	140	50.0
Iron, mg	12.5	4.5
Zinc, mg	6.1	2.2
Manganese, mg	1.2	0.43
Copper, mcg	700	250
Iodine, mcg	174	62.1
Molybdenum, mcg	31.9	11.4
Chromium, mcg	12.8	4.6
Selenium, mcg	35.3	12.6
Sodium, mg	350	125
Potassium, mg	556	199
Chloride, mg	508	181

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 Fibre, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Ascorbyl Palmitate, Potassium iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-alpha Tocopherol, Vitamin D_3, Phylloquinone, D-Biotin, Cyanocobalamin

CONTAINS: Coconut Oil, Soy.

**A source of docosahexaenoic acid (DHA)

XMTVI Maxamum®

A methionine-, threonine-, valine-free and low isoleucine formula for the dietary management of vitamin B_{12} non-responsive methylmalonic acidemia or propionic acidemia in older children and adults, including pregnant women and women of child-bearing age.

Main Features:

- Methionine, threonine, valine free and isoleucine low
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, vitamins, minerals and trace elements
- Age-appropriate DRI formulation
- Provides 40 g of protein equivalent per 100 g of powder
- Available in orange flavour
- Contains <1 g of fat per 10 g protein equivalent thereby allowing greater flexibility
  in modifying energy intake
- Osmolality (mOsm/kg H_2O):
  Dilution
  1 to 7 740
  1 to 5 1070
- Displacement: 0.6 mL/g

Indications:

- Vitamin B_{12} non-responsive methylmalonic acidemia
- Propionic acidemia

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
49805	6 x 454 g (1 lb)	1385

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	305	76
Protein Equivalent, g	40.0	10.0
Fat, g	<1.0	<0.25
Carbohydrate, g	34.0	8.5
Amino Acids, g		
L-Alanine	34.0	1.15
L-Arginine	4.10	1.03
L-Aspartic Acid	3.60	0.90
L-Cystine	1.50	0.38
L-Glutamic Acid	4.50	1.13
Glycine	1.80	0.45
L-Histidine	2.80	0.70
L-Isoleucine	<0.14	Trace
L-Leucine	6.20	1.55
L-Lysine	4.20	1.05
L-Methionine	Nil Added	Nil Added
L-Phenylalanine	2.70	0.68
L-Proline	1.90	0.48
L-Serine	2.60	0.65
L-Threonine	Nil Added	Nil Added
L-Tryptophan	1.20	0.30
L-Tyrosine	2.70	0.68
L-Valine	Nil Added	Nil Added
L-Carnitine	0.04	0.01
Taurine	0.14	0.04
L-Glutamine	0.32	0.08

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	2228 (669)	557 (167)
Vitamin D_3, IU (mcg)	332 (8.3)	83.0 (2.1)
Vitamin E, IU (mg α-TE)	18.3 (12.3)	4.6 (3.1)
Vitamin K, mcg	82.0	20.5
Thiamine, mg	0.91	0.23
Riboflavin, mg	0.97	0.24
Vitamin B_6, mg	1.6	0.40
Vitamin B_{12}, mcg	3.1	0.78
Niacin, mg	5.7	1.4
Folic Acid, mcg	491	123
Pantothenic Acid, mg	4.9	1.2
Biotin, mcg	24.5	6.1
Vitamin C, mg	62.0	15.5
Choline, mg	430	108
Inositol, mg	80.0	20.0
Minerals		
Calcium, mg	1183	296
Phosphorus, mg	1137	284
Magnesium, mg	306	76.5
Iron, mg	14.7	3.7
Zinc, mg	9.0	2.3
Manganese, mg	1.8	0.45
Copper, mcg	820	205
Iodine, mcg	131	32.8
Molybdenum, mcg	37.0	9.3
Chromium, mcg	26.0	6.5
Selenium, mcg	58.0	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 Chloride Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Artificial Colors (Beta Carotene, Beet Red), Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

CONTAINS: Soy.

XPhe, XTyr Analog™

A phenylalanine- and tyrosine-free powdered infant formula for the dietary management of tyrosinemia when plasma methionine level is normal.

Main Features:

- Phenylalanine and tyrosine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate, fat, vitamins, minerals and trace elements (including iron, selenium and chromium)
- Provides 13 g of protein equivalent per 100 g of powder
- Unflavoured
- Osmolality (at 15% w/v): 377 mOsm/kg H_2O
- Displacement: 0.70 mL/g

Indications:

- Tyrosinemia

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
49831	6 x 400 g (14 oz)	1900

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	475	365
Protein Equivalent, g	13.0	10.0
Fat, g	20.9	16.1
Saturated, g	6.8	5.2
Monounsaturated, g	9.5	7.3
Polyunsaturated, g	3.6	2.8
Linoleic Acid, mg	3025	2327
Carbohydrate, g	59.0	45.4
Amino Acids, g		
L-Alanine	0.63	0.48
L-Arginine	1.13	0.87
L-Aspartic Acid	0.93	0.72
L-Cystine	0.42	0.32
L-Glutamic Acid	1.26	0.97
Glycine	0.96	0.74
L-Histidine	0.65	0.50
L-Isoleucine	1.00	0.77
L-Leucine	1.72	1.32
L-Lysine	1.17	0.90
L-Methionine	0.27	0.21
L-Phenylalanine	Nil Added	Nil Added
L-Proline	1.21	0.93
L-Serine	0.74	0.57
L-Threonine	0.84	0.65
L-Tryptophan	0.34	0.26
L-Tyrosine	Nil Added	Nil Added
L-Valine	1.10	0.85
L-Carnitine	0.01	0.01
Taurine	0.02	0.02
L-Glutamine	0.10	0.08

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1760 (528)	1354 (406)
Vitamin D_3, IU (mcg)	340 (8.5)	262 (6.5)
Vitamin E, IU (mg α-TE)	4.9 (3.3)	3.8 (2.5)
Vitamin K, mcg	21.0	16.2
Thiamine, mcg	500	385
Riboflavin, mcg	600	462
Vitamin B_6, mcg	520	400
Vitamin B_{12}, mcg	1.25	0.96
Niacin, mcg	4500	3462
Folic Acid, mcg	38.0	29.2
Pantothenic Acid, mcg	2600	2000
Biotin, mcg	26.0	20.0
Vitamin C, mg	40.0	30.8
Choline, mg	50.0	38.5
Inositol, mg	100	76.9
Minerals		
Calcium, mg	600	462
Phosphorus, mg	500	385
Magnesium, mg	40.0	30.8
Iron, mg	10.0	7.7
Zinc, mg	8.0	6.2
Manganese, mcg	600	462
Copper, mcg	450	346
Iodine, mcg	47.0	36.2
Molybdenum, mcg	15.0	11.5
Chromium, mcg	15.0	11.5
Selenium, mcg	15.0	11.5
Sodium, mg	120	92.3
Potassium, mg	420	323
Chloride, mg	290	223

Ingredients:

Corn Syrup Solids, Hybrid Safflower Oil, Refined Vegetable Oil (Coconut, Soy), L-Lysine L-Glutamate, Calcium Phosphate Dibasic, L-Leucine, L-Proline, L-Arginine, L-Valine, Glycine, L-Isoleucine, L-Aspartic Acid, Galactose, L-Threonine, Tripotassium Citrate, L-Serine, Calcium Phosphate Monobasic, L-Alanine, L-Histidine, Mono and Diglycerides, L-Cystine, L-Tryptophan, Sodium Chloride, L-Methionine, Magnesium Acetate, Potassium Chloride, Diacetyl Tartaric Acid Esters of Monoglycerides, Tricalcium Citrate, L-Glutamine, Choline Bitartrate, M-Inositol, L-Ascorbic Acid, Soy Lecithin, L-Glutamic Acid, Calcium Phosphate Tribasic, Ferrous Sulfate, Zinc Sulfate, Taurine, L-Carnitine, Nicotinamide, DL-Alpha Tocopheryl Acetate, Calcium Pantothenate, Manganese Sulfate, Cupric Sulfate, Vitamin A Acetate, Pyridoxine Hydrochloride, Riboflavin, Thiamine Chloride Hydrochloride, Chromium Sulfate, Potassium Iodide, Folic Acid, Sodium Molybdate, Phylloquinone, Biotin, Sodium Hydrogen Selenite, Vitamin D_3, Cyanocobalamin.

TYR Anamix® Next

A phenylalanine- and tyrosine-free mildly-flavoured powdered formula for the dietary management of tyrosinemia in individuals over 1 year of age.

Main Features:

- Phenylalanine and tyrosine free
- Contains a balanced mixture of all other essential and non-essential amino acids, carbohydrate (including a multi-fibre 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 flavour
- Osmolality (at 1.1 kcal/mL): 1220 mOsm/kg H_2O
  Based on dilution of 36 g powder (approx 4 scoops) to 100 mL (3.5 fl oz) water
- Displacement: 0.72 mL/g

Indications:

- Tyrosinemia

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
89479	6 x 400 g (14 oz)	1540

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	385	138
Protein Equivalent, g	28.0	10.0
Fat, g	12.5	4.5
Saturated, g	2.0	0.71
Monounsaturated, g	8.2	2.9
Polyunsaturated, g	1.8	0.64
DHA, mg	180	64.3
Carbohydrate, g	43.2	15.4
Fibre, g	11.2	4.0
Soluble	8.0	2.9
Insoluble	3.2	1.1
Amino Acids, g		
L-Alanine	4.71	1.68
L-Arginine	1.67	0.60
L-Aspartic Acid	0.41	0.15
L-Cystine	2.71	0.97
L-Glutamine	3.36	1.20
Glycine	3.94	1.41
L-Histidine	0.79	0.28
L-Isoleucine	1.66	0.59
L-Leucine	2.52	0.90
L-Lysine	2.24	0.80
L-Methionine	0.56	0.2
L-Phenylalanine	Nil Added	Nil Added
L-Proline	2.71	0.97
L-Serine	1.59	0.57
L-Threonine	2.94	1.05
L-Tryptophan	0.56	0.20
L-Tyrosine	Nil Added	Nil Added
L-Valine	1.96	0.70
L-Carnitine	0.02	0.01
Taurine	0.05	0.02

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	1399(420)	500(150)
Vitamin D_3, IU (mcg)	840(21.0)	300(7.5)
Vitamin E, IU (mg α-TE)	12.5 (8.4)	4.5 (3.0)
Vitamin K, mcg	14.0	5.0
Thiamine, mg	0.73	0.24
Riboflavin, mg	0.73	0.26
Vitamin B_6, mg	0.73	0.26
Vitamin B_{12}, mcg	1.3	0.46
Niacin, mg	2.0	0.71
Folic Acid, mcg	210	75.0
Pantothenic Acid, mg	4.2	1.5
Biotin, mcg	11.2	4.0
Vitamin C, mg	42.0	15.0
Choline, mg	224	80.0
Inositol, mg	56.0	20.0
Minerals		
Calcium, mg	980	350
Phosphorus, mg	641	229
Magnesium, mg	113	40.3
Iron, mg	10.0	3.6
Zinc, mg	4.9	1.7
Manganese, mg	0.92	0.33
Copper, mcg	560	200
Iodine, mcg	139	49.6
Molybdenum, mcg	25.5	9.1
Chromium, mcg	10.2	3.6
Selenium, mcg	28.2	10.1
Sodium, mg	280	100
Potassium, mg	445	159
Chloride, mg	406	145

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 Fibre, M-Inositol, Taurine, Ferrous Sulfate, Sunflower Lecithin, L-Carnitine, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Niacinamide, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Folic Acid, Potassium Iodide, Mixed Tocopherols, Sodium Molybdate, Sodium Selenite, Chromium Chloride, DL-alpha Tocopherol, Vitamin D_3, Phylloquinone, D-Biotin, Cyanocobalamin

CONTAINS: Coconut Oil, Soy.

**A source of docosahexaenoic acid (DHA)

TYR Lophlex® LQ

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

Main Features:

- Tyrosine and phenylalanine free
- Low volume; provides 20 g protein equivalent in just 125 mL (4.2 fl oz)
- Convenient ready-to-drink
- Based on fruit juices (from concentrate) with natural flavour - no artificial flavours
- Contains a balanced mixture of essential and non-essential amino acids, carbohydrates, vitamins, minerals and DHA
- Provides 150 mg of DHA per pouch
- Available in mixed berry blast flavour
- Osmolality (at 0.96 kcal/mL): 2460 mOsm/kg H_2O

Indications:

- Tyrosinemia

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

Ordering Information:

Product Code	Product Packaging	Calories Per Pouch
66750	30 x 125 mL (4.2 fl oz)	120

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

Nutrition Information:

Nutrients	Per Pouch (125 mL)	Per 10 g Protein Equivalent
Calories	120	60
Protein Equivalent, g	20.0	10.0
Fat, g	0.44	0.22
DHA, mg	150	75.0
Carbohydrate, g	9.3	4.7
Fibre, g	0.50	0.25
Amino Acids, g		
L-Alanine	1.13	0.57
L-Arginine	1.68	0.84
L-Aspartic Acid	1.63	0.82
L-Cystine	0.83	0.42
Glycine	1.63	0.82
L-Histidine	0.95	0.48
L-Isoleucine	1.55	0.78
L-Leucine	2.50	1.25
L-Lysine	1.75	0.88
L-Methionine	0.40	0.20
L-Phenylalanine	Trace*	Trace*
L-Proline	2.03	1.02
L-Serine	1.30	0.65
L-Threonine	1.25	0.63
L-Tryptophan	0.50	0.25
L-Tyrosine	Trace*	Trace*
L-Valine	1.65	0.83
L-Carnitine	0.02	0.01
Taurine	0.14	0.07

Vitamins	Per Pouch (125 mL)	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	949 (285)	475 (143)
Vitamin D_3, IU (mcg)	320 (8.0)	160 (4.0)
Vitamin E, IU (mg α-TE)	4.8 (3.2)	2.4 (1.6)
Vitamin K, mcg	24.9	12.5
Thiamine, mg	0.54	0.27
Riboflavin, mg	0.50	0.25
Vitamin B_6, mg	0.58	0.29
Vitamin B_{12}, mcg	1.8	0.90
Niacin, mg	7.1	3.6
Folic Acid, mcg	120	60.0
Pantothenic Acid, mg	1.8	0.90
Biotin, mcg	53.4	26.7
Vitamin C, mg	17.8	8.9
Choline, mg	153	76.5
Inositol, mg	40.6	20.3
Minerals		
Calcium, mg	319	160
Phosphorus, mg	244	122
Magnesium, mg	96.3	48.2
Iron, mg	5.1	2.6
Zinc, mg	3.8	1.9
Manganese, mg	0.56	0.28
Copper, mcg	563	282
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	<25.0	<12.5
Potassium, mg	90.0	45.0
Chloride, mg	<25.0	<12.5

Ingredients:

Water, Apple Juice from Concentrate (34.1%), Grape Juice from Concentrate (6.9%), Blackcurrant Juice from Concentrate (2.5%), L-Leucine, L-Lysine Acetate, Citric Acid, L-Proline, L-Arginine, L-Valine, L-Aspartic Acid, Glycine, L-Isoleucine, L-Serine, L-Threonine, Corn Syrup Solids, Dicalcium Phosphate, L-Alanine, L-Histidine, L-Cystine, Elderberry Juice from Concentrate (0.6%), Maltodextrin, Magnesium Acetate, Sugar, N-Acetyl L-Methionine, L-Tryptophan, Choline Bitartrate, *C. Cohnii Oil***, Microcrystalline Cellulose, Natural Flavor, Taurine, Fruit Concentrate (Apple, Blackcurrant, Radish), L-Ascorbic Acid, Guar Gum, Sunflower Lecithin, Xanthan Gum, M-Inositol, Potassium Sorbate (preservative to delay spoilage), Artificial Sweetener: Sucralose§, Ferrous Lactate, Artificial Sweetener: Acesulfame Potassium‡, L-Carnitine, Sodium Benzoate (preservative to delay spoilage), Zinc Sulfate, Niacinamide, DL-alpha Tocopheryl Acetate, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Vitamin A Palmitate, Riboflavin, Folic Acid, Potassium Iodide, Ascorbyl Palmitate, Mixed Tocopherols, Sodium Molybdate, D-Biotin, Sodium Selenite, Chromium Chloride, Phylloquinone, Vitamin D_3, Cyanocobalamin.

**A source of docosahexaenoic acid (DHA)

§Contains 31.3 mg sucralose per 125 mL

‡Contains 25 mg acesulfame potassium per 125 mL

CONTAINS: 44.1% juice.

TYR Lophlex® GMP MIX-IN

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

Main Features:

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

Indications:

- Tyrosinemia

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

Ordering Information:

Product Code	Product Packaging	Calories Per Pouch
135757	20 x 12.5g (0.44 oz)	40

Nutrition Information:

Nutrients	Per 100 g Powder	Per 10 g Protein Equivalent (1 pouch)
Calories	324	40
Protein Equivalent, g	80	10
Fat, g	<0.1	<0.1
Carbohydrate, g	<1.0	<0.5
Amino Acids, g		
L-Alanine	3.2	0.40
L-Arginine	3.9	0.48
L-Aspartic Acid	4.7	0.59
L-Cystine	1.2	0.15
L-Glutamic Acid	10.8	1.35
Glycine	7.5	0.94
L-Histidine	3.9	0.49
L-Isoleucine	5.8	0.72
L-Leucine	11.6	1.45
L-Lysine	6.2	0.78
L-Methionine	1.9	0.23
L-Phenylalanine, mg	144	18.0
L-Proline	6.3	0.79
L-Serine	4.1	0.51
L-Threonine	9.0	1.13
L-Tryptophan	1.9	0.24
L-Tyrosine, mg	28	3.5
L-Valine	7.0	0.88
L-Carnitine	0.08	0.01
Taurine	0.24	0.03

Minerals	Per 100 g Powder	Per 10 g Protein Equivalent (1 pouch)
Calcium, mg	62.1	7.8
Phosphorus, mg	320	40.0
Potassium, mg	960	120
Sodium, mg	1125	141

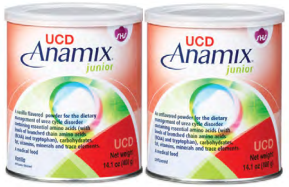
Ingredients:

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

CONTAINS: Milk.

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

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



UCD Anamix® Junior

A powdered formula containing essential amino acids (with increased levels of branched chain amino acids (BCAAs) and tryptophan), carbohydrates, fat, vitamins and minerals; for the dietary management of urea cycle disorders (UCD); hyperammonemia, hyperornithinemia, homocitrullinemia (HHH) syndrome; and gyrate atrophy in patients over 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 prevent protein being broken down for energy and toxic metabolites being produced
- Essential micronutrients such as calcium, vitamin D, iron and zinc supplied to compensate for low intake from natural food
- Available in vanilla and unflavoured
- Osmolality (mOsm/kg H_2O):
  Dilution
  1 to 3.5 1040
- Displacement: 0.7 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 Information:

Product Code	Product Packaging	Calories Per Can
59292 - Unflavoured	6 x 400 g (14 oz)	1540
59293 - Vanilla	6 x 400 g (14 oz)	1540

Nutrition Information:

Nutrients	Per 100 g	Per 10 g Protein Equivalent
Calories	385	321
Protein Equivalent, g	12.0	10.0
Fat, g	17.0	14.2
Carbohydrate, g	46.0	38.3
Amino Acids, g		
L-Alanine	Nil Added	Nil Added
L-Arginine	Nil Added	Nil Added
L-Asparagine	Nil Added	Nil Added
L-Aspartic Acid	Nil Added	Nil Added
L-Citrulline	Nil Added	Nil Added
L-Cystine	0.43	0.36
L-Glutamic Acid	Nil Added	Nil Added
L-Glutamine	Nil Added	Nil Added
Glycine	Nil Added	Nil Added
L-Histidine	0.51	0.43
L-Isoleucine	2.26	1.88
L-Leucine	3.82	3.18
L-Lysine	1.92	1.60
L-Methionine	0.40	0.33
L-Phenylalanine	0.67	0.56
L-Proline	Nil Added	Nil Added
L-Serine	Nil Added	Nil Added
L-Threonine	1.59	1.32
L-Tryptophan	0.48	0.40
L-Tyrosine	1.23	1.02
L-Valine	2.29	1.91
L-Carnitine	0.01	0.01
Taurine	0.07	0.06

Vitamins	Per 100 g	Per 10 g Protein Equivalent
Vitamin A, IU (mcg RE)	3197 (960)	2664 (800)
Vitamin D_3, IU (mcg)	920 (23.0)	767 (19.2)
Vitamin E, IU (mg α-TE)	27.5 (18.5)	22.9 (15.4)
Vitamin K, mcg	92.2	76.8
Thiamine, mg	1.9	1.6
Riboflavin, mg	1.5	1.3
Vitamin B_6, mg	1.5	1.3
Vitamin B_{12}, mcg	3.8	3.2
Niacin, mg	9.6	8.0
Folic Acid, mcg	461	384
Pantothenic Acid, mg	6.1	5.1
Biotin, mcg	34.6	28.8
Vitamin C, mg	120	100
Choline, mg	480	400
Inositol, mg	108	90
Minerals		
Calcium, mg	1555	1296
Phosphorus, mg	1555	1296
Magnesium, mg	246	205
Iron, mg	26.9	22.4
Zinc, mg	21.1	17.6
Manganese, mg	3.6	3.0
Copper, mcg	1900	1583
Iodine, mcg	276	230
Molybdenum, mcg	63.4	52.8
Chromium, mcg	41.3	34.4
Selenium, mcg	76.8	64.0
Sodium, mg	1114	928
Potassium, mg	1613	1344
Chloride, mg	864	720

Ingredients:

Unflavoured: Corn Syrup Solids, Refined Vegetable Oils (High Oleic Safflower, Canola, Fractionated Coconut), Sugar, L-Leucine, Sodium Phosphate Dibasic, Tripotassium Citrate, Tricalcium Citrate, Tricalcium Phosphate, L-Lysine Hydrochloride, L-Valine, L-Isoleucine, Magnesium Hydrogen Phosphate, L-Threonine, Choline Bitartrate, L-Tyrosine, Potassium Chloride, Citric Acid Ester of Mono- And Diglycerides (An Emulsifier), L-Phenylalanine, L-Histidine, L-Tryptophan, L-Cystine, L-Methionine, L-Ascorbic Acid, M-Inositol, Ferrous Sulfate, Taurine, Zinc Sulfate, DL-alpha Tocopheryl Acetate, Manganese Sulfate, Niacinamide, L-Carnitine, Calcium-D-Pantothenate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Sodium Selenite, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Vitamin D_3, Cyanocobalamin.

Vanilla flavoured version also contains: Artificial Flavor.

CONTAINS: Coconut Oil.

Please see individual product label for exact order of ingredients.

Household Measurements

Measure	g Product	g Protein Equivalent
Periflex Infant		
Enclosed scoop	4.75	0.62
1 Tbsp	7	0.91
1 cup	114	14.8
PKU Periflex Junior Plus (Plain)		
Enclosed scoop	9.0	2.5
1 Tbsp	8.7	2.4
1 cup	139	38.9
PKU Periflex Junior Plus (Flavours)		
Enclosed scoop	9.0	2.5
1 Tbsp	8.3	2.3
1 cup	132	37
TYR Anamix Next		
Enclosed scoop	9.0	2.5
1 Tbsp	8.6	2.4
1 cup	137	38.4

Measure	g Product	g Protein Equivalent
HCU Anamix Next		
Enclosed scoop	9.0	2.5
1 Tbsp	8.3	2.3
1 cup	133	37.2
IVA, MMA/PA Anamix Next		
Enclosed scoop	9.0	2.5
1 Tbsp	8.8	2.5
1 cup	140	39.2
UCD Anamix Junior Unflavoured		
Enclosed scoop	5.0	0.60
1 Tbsp	9.0	1.1
1 cup	143	17.2
UCD Anamix Junior Vanilla		
Enclosed scoop	5.0	0.60
1 Tbsp	8.7	1.0
1 cup	139	16.7
Periflex Advance		
1 Tbsp	9.4	3.3
1 cup	150	53
PhenylAde Essential Drink Mix		
Enclosed scoop or 1 pouch	40	10
1 Tbsp	10	2.5
1 cup	160	40
PhenylAde GMP Drink Mix		
Enclosed scoop or 1 pouch	33.3	10
1 Tbsp	6.6	2
1 cup	128	38.4
PhenylAde GMP MIX-IN		
1 pouch	12.5	10
PhenylAde GMP ULTRA		
1 pouch	33.4	20

Household measures are based on standard dry 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 scale for greatest accuracy. The scoops Nutricia provides are validated for use with Nutricia formulas, so are preferable to household measures.

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

Measure	g Product	g Protein Equivalent
PhenylAde 40 Drink Mix		
1 pouch	25	10
PhenylAde 60 Drink Mix		
Enclosed scoop or 1 pouch	16.7	10
1 Tbsp	9.8	5.9
1 cup	148	90
PhenylAde MTE Amino Acid Blend		
Enclosed scoop or 1 pouch	12.8	10
1 Tbsp	8.5	6.6
1 cup	116	90
GlutarAde Junior		
Enclosed scoop	9.8	0.98
1 Tbsp	9.3	0.93
1 cup	146	14.6
GlutarAde Essential		
Enclosed scoop	40	10
1 Tbsp	10	2.5
1 cup	160	40
GlutarAde Amino Acid Blend		
Enclosed scoop	12.3	10
1 Tbsp	8.5	6.9
1 cup	116	94
Complex MSD Junior		
Enclosed scoop	8.5	1.1
1 Tbsp	8.4	1.1
1 cup	118	15.2
Complex MSD Essential		
Enclosed scoop	40	10
1 Tbsp	9.8	2.4
1 cup	160	40

Measure	g Product	g Protein Equivalent
Complex MSD Amino Acid Blend		
Enclosed scoop	12.4	10
1 Tbsp	8.2	6.6
1 cup	124	100
Maxamum Range (Flavoured & Unflavoured)		
1 Tbsp	9	3.6
1 cup	145	58
TYR Lophlex GMP MIX-IN		
1 pouch	12.5	10

Household measures are based on standard dry 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 scale for greatest accuracy. The scoops Nutricia provides are validated for use with Nutricia formulas, so are preferable to household measures.

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

Periflex® Infant

Infant formula containing iron, DHA & ARA, for the dietary management of phenylketonuria.

Administration:

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

Mixing Instructions:

1. Wash hands with soap and water.
2. Clean and sanitize working surface.
3. Sterilize bottles, nipples, caps and other equipment by placing in water which is then brought to a rolling boil for 2 minutes. Store covered until ready to use.
4. Bring fresh water to a rolling boil for 2 minutes and cool. For healthy, full-term infants cool to room temperature. For low birth weight or immuno-compromised infants consult your healthcare professional.
5. At standard dilution (0.67 kcal/mL), 1 level unpacked scoop (4.75 g powder) makes 30 mL of prepared formula.
6. Measure the required amount of powder into bottle(s) with provided scoop (see table).
7. Add the appropriate amount of water. Cap bottle(s).
8. Shake well for 15-20 seconds or until powder dissolves.
9. Use immediately after preparation or refrigerate promptly at 4º C or less and use within 24 hours.
10. Shake immediately before use.
11. Once feeding has started, use within 1 hour. Discard any leftover formula.
12. Do not use a microwave oven to prepare or warm formula.
13. Do not boil prepared formula.

Water to Add	Amount of Powder	Final Volume
105 mL	4 level unpacked scoops (19 g)	120 mL
215 mL	8 level unpacked scoops (38 g)	240 mL
800 mL	30 level unpacked scoops (142.5 g)	900 mL

Storage:

- Store unopened cans at room temperature. Avoid extreme temperatures. Cover opened can with provided lid and store in a cool, dry place. Use within one (1) month.

PKU Periflex® Junior Plus and Anamix® Next

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

Administration:

- PKU Periflex Junior Plus & Anamix Next must be consumed in conjunction with whole protein and other nutrients in quantities prescribed by a dietitian or physician to supply whole protein, fluid and general nutrition requirements.
- Intake of Periflex Junior Plus or Anamix Next is dependent on the age, body weight and medical condition of the individual. Periflex Junior 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 dilution is 100 mL (3.5 fl oz) water plus 36 g powder (approx. 4 scoops) made up to a final volume of approx. 126 mL (4.3 fl oz).

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

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

Precautions:

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

Storage:

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

Periflex® Advance and Periflex® LQ

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

Administration:

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

Mixing Instructions:

Periflex Advance

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

Dilution Guidelines for Periflex Advance

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

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

Periflex LQ

Shake well before use. Best served chilled.

Precautions:

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

Storage:

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

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

Analog™

Infant formulas for the dietary management of metabolic disorders.

Administration:

- Analog metabolic infant formulas must be consumed in conjunction with a whole protein source (e.g. breast milk or standard infant formula) in quantities prescribed by a dietitian or physician to meet complete protein requirements and ensure normal growth.
- Formula intake will vary depending on the age, body weight, medical condition and protein tolerance of the infant.

Mixing Instructions:

1. Wash hands thoroughly and clean preparation area. Sterilize bottle feeding system.
2. Boil water for 5 minutes and allow to cool for at least 30 minutes so that it feels warm to the wrist.
3. Add the prescribed amount of Analog powder and a protein source to the sterilized feeding bottle. For accuracy, Analog should be weighed on a gram scale. If using the provided scoop, fill it and level off with a clean, dry knife. Do not press the powder into the scoop.
4. Pour the required amount of cooled, boiled water into feeding bottle. To make the recommended dilution (21 kcal/fl oz), Analog requires 30 mL (1 fl oz) of water for every 5 g (1 unpacked, level scoop) of powder. Place cap on bottle and shake until powder has dissolved.
5. Make sure the formula is lukewarm by placing a few drops on your wrist.

Formula prepared in advance must be cooled rapidly, stored in the refrigerator (35°F to 40°F) and used within 24 hours of preparation. Shake immediately before use. Formula remaining in the bottle after one hour of feeding should be discarded. Tube feeding hang time should not exceed 4 hours.

Caution:

- Do not boil formula. Do not use a microwave oven to prepare or warm formula.

Precautions:

- Must only be given under strict medical supervision to infants with proven inborn errors of metabolism. Not intended as the sole source of nutrition. Not for parenteral use.

Storage:

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

Maxamum®

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

Administration:

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

Mixing Instructions:

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

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

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

Precautions:

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

Storage:

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

PhenylAde®

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

Administration:

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

Mixing Instructions:

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 dilution below for a guideline.
3. Once prepared, store formula in a refrigerator for no more than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.
4. Do not heat, bake or add to food or beverages above 54.4° C (130° F).

Recommended Dilution:

- PhenylAde Essential Drink Mix

  Add contents of 1 scoop or pouch (40 g) to approx. 210 mL (7 fl oz) of cold water.
- PhenylAde GMP Drink Mix

  Add contents of 1 scoop or pouch (33.3 g) to approx. 150-180 mL (5-6 fl oz) of cold water.
- PhenylAde GMP READY

  Shake well before use. Best served chilled or at room temperature.
- PhenylAde GMP MIX-IN

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

  Add contents of 1 pouch (33.4 g) to approx. 180 mL (6 fl oz) of cold water.
- PhenylAde40 Drink Mix

  Add contents of 1 pouch (25 g) to approx. 120-180 mL (4-6 fl oz) of cold water.
- PhenylAde60 Drink Mix

  Add contents of 1 scoop or pouch (16.7 g) to approx 90 mL (3 fl oz) of cold water.
- PhenylAde MTE Amino Acid Blend

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

Precautions:

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

Storage:

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

Phlexy-10® Drink Mix

A phenylalanine-free formula for the dietary management of phenylketonuria (PKU) in individuals over 1 year of age, including pregnant women and women of child-bearing age.

Administration:

- Phlexy-10 Drink Mix must be consumed in conjunction with whole protein, fluid and other nutrients in quantities prescribed by a physician or dietitian to meet phenylalanine and general nutrition requirements. Fat, carbohydrate and low protein sources may be used to supply needed calories and to fulfill essential fatty acid requirements.
- Intake of Phlexy-10 Drink Mix will vary depending on the age, body weight and medical condition of the individual. Intake is adjusted to maintain normal growth and development. One packet of the drink mix is equivalent to 8.33 g of protein.
- Phlexy-10 Drink Mix does not contain vitamins, minerals, or trace elements. It is essential that these nutrients are supplied separately.

Mixing Instructions:

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

Precautions:

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

Storage:

- Phlexy-10 Drink Mix should be stored in a cool, dry place. Once reconstituted, Phlexy-10 Drink Mix should be stored in a refrigerator and must be used within 24 hours of preparation.

PhenylAde™ PheBLOC™ LNAA

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

Administration:

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

Mixing Instructions:

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

Precautions:

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

Storage:

- Store unopened sachets in a cool, dry place.

Lophlex® Powder and Lophlex® LQ

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

Administration:

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

Preparation (Lophlex LQ):

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

Mixing Instructions (Lophlex Powder):

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

Precautions:

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

Storage:

- Store in a cool, dry place, below 30°C (86°F) (not in the refrigerator) and away from sunlight.

Recommended Dilution (TYR Lophlex GMP MIX-IN):

- Add contents of 1 pouch (12.5 g) to approximately 180-240 mL (6-8 fl oz) of a chilled (protein-free) flavoured beverage.

Complex MSD®: Junior, Essential and Amino Acid Blend

Formulas for the dietary management of maple syrup urine disease (MSUD) in children and adults, including pregnant women and women of child-bearing age.

Administration:

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

Mixing Instructions:

- Add prescribed amount of Complex powder to cold water; shake or stir until completely mixed together.
- Dilution may be adjusted to taste. See guidelines in the tables that follow.
- Once prepared, store formula in a refrigerator for no more than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.
- Do not heat, bake or add to food or beverages above 54°C (130°F).

Recommended Dilution:

- Complex MSD Junior

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

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

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

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

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

- Complex MSD Essential

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

- Complex MSD Amino Acid Blend

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

Precautions:

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

Storage:

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

GlutarAde®: Junior, Essential and Amino Acid Blend

Formulas for the dietary management of glutaric aciduria type 1 (GA-1) in children and adults, including pregnant women and women of child-bearing age.

Administration:

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

Mixing Instructions:

- Add prescribed amount of GlutarAde Powder to cold water, shake or stir until completely mixed together.
- Dilution may be adjusted to taste. See guidelines in the tables that follow.
- Once prepared, store formula in a refrigerator for no more than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.
- Do not heat, bake or add to food or beverages above 54°C (130°F).

Recommended Dilution

- GlutarAde Junior

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

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

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

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

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

- GlutarAde Essential
  Add contents of 1 scoop (40g) to approx. 210 mL (7 fl oz) of cold water.
- GlutarAde Amino Acid Blend
  Simply add one serving to single portion of low protein food, beverage or other GA-1 formula.
  The appropriate serving size must be established and consumed to meet prescribed amino acid protein requirements. Not intended to be added to plain water.

Precautions:

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

Storage:

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

UCD Anamix® Junior

A formula for the dietary management of urea cycle disorders in individuals over 1 year of age.

Administration:

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

Mixing Instructions:

- Best served chilled with meals.
- Pour the required volume of cold water into a glass or cup.
- Add the prescribed amount of UCD Anamix Junior powder to the water and stir. For accuracy it is recommended to use a scale.
- It is recommended that UCD Anamix Junior be prepared at a 1 to 3.5 dilution. This dilution is a guideline only. An alternative dilution may be recommended by a physician 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 that 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.

Dilution Guidelines for UCD Anamix Junior

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

Precautions:

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

Storage:

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

LOW PROTEIN FOODS

Loprofin and Milupa low protein foods

A line of products to help add variety to a protein-restricted diet.
Our low protein food range includes baking mix, pastas, rice, cereals, crackers, and more.

Indications:

- Dietary management of certain inherited metabolic disorders and other medical conditions where a low protein diet is indicated.

For more information, visit www.NutriciaMetabolics.com

Nathan
Diagnosed with
intractable epilepsy

NEUROLOGY

KetoCal® 4:1 Powder

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

Main Features:

- Nutritionally complete
- 4:1 ratio
- Convenient one-step preparation with a non-modular approach
- Vanilla flavour
- Multi-fibre blend
- DHA and ARA
- Appropriate for enteral or oral feedings
- Contains sucralose
- Nutrient dense for children with low energy requirements
- Standard dilution = 1 kcal/mL
- Osmolality (at 1 kcal/mL): 170 mOsm/kg H_2O
- Energy distribution:
  - Protein: 8.2%
  - Carbohydrate: 3.5%
  - Fibre: 1.5%
  - Fat (LCT 100%) 88.3%
- Displacement: 1 mL/g

Indications:

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

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

Ordering/Reimbursement Information:

Product Code	Product Packaging	Calories Per Can
101777	6 x 300 g (11 oz)	2115

Nutrition Information:

Nutrients	Per 100 g	Per 100 mL
Energy, kcal (kJ)	705 (2950)	100 (411)
Protein, g	14.4	2.0
Carbohydrate, g	8.2	1.2
Fibre, g	5.3	0.75
Soluble, g	3.2	0.45
Insoluble, g	2.1	0.30
Fat, g	69.2	9.8
Saturated, g	26.7	3.8
+ Trans, g	0	0
Monounsaturated, g	22.8	3.2
Polyunsaturated, g	19.7	2.8
Arachidonic Acid, mg	120	17.0
Docosahexaenoic Acid, mg	110	15.6
Vitamins		
Vitamin A, IU (mcg)	1232 (370)	175 (52.5)
Vitamin D, IU (mcg)	420 (10.5)	59.6 (1.5)
Vitamin E, IU (mg α TE)	15.9 (10.7)	2.3 (1.5)
Vitamin K, mg	0.031	0.0044
Thiamine, mg	0.89	0.13
Riboflavin, mg	0.70	0.10
Vitamin B_6, mg	0.70	0.10
Vitamin B_{12}, mg	0.0013	0.00018
Niacin, mg	4.9	0.70
Folic Acid, mg	0.116	0.0165
Pantothenic acid, mg	2.9	0.41
Biotin, mg	0.0191	0.0027
Vitamin C, mg	40.0	5.7
Choline, mg	320	45.5
Inositol, mg	19.1	2.7

Minerals, Trace Elements	Per 100 g	Per 100 mL
Calcium, mg	700	99.3
Phosphorus, mg	420	59.6
Magnesium, mg	96.3	13.7
Iron, mg	7.0	0.99
Zinc, mg	3.6	0.51
Manganese, mg	0.83	0.12
Copper, mg	0.50	0.071
Iodine, mg	0.0862	0.0122
Molybdenum, mg	0.0287	0.0041
Chromium, mg	0.0148	0.0021
Selenium, mg	0.027	0.0038
Sodium, mg	481	68.2
Potassium, mg	771	109
Chloride, mg	726	103
L-Carnitine, mg	45.0	6.4
Taurine, mg	33.0	4.7

Fibre is subtracted from the 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 Fibre, L-Tryptophan, Magnesium Oxide, Sodium Caseinate (Milk), Sodium Ascorbate, L-Phenylalanine, Maltodextrin, L-Ascorbic Acid, L-Valine, L-Tyrosine, L-Carnitine, Taurine, Ferrous Sulfate, Mono- and Diglycerides, DL-alpha Tocopheryl Acetate, Sucralose§, M-Inositol, L-Histidine, Zinc Sulfate, Niacinamide, Calcium D-Pantothenate, Manganese Sulfate, Cupric Sulfate, Thiamine Chloride Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Acetate, Ascorbyl Palmitate, Mixed Tocopherols, Folic Acid, Potassium Iodide, Sodium Molybdate, Chromium Chloride, Sodium Selenite, Phylloquinone, D-Biotin, Cholecalciferol, Cyanocobalamin.

Contains: Milk, Soy

*A source of Arachidonic Acid (ARA)

**A source of Docosahexaenoic Acid (DHA)

§ Contains sucralose 14.2 mg/100 mL

KetoCal® 4:1 LQ

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

Main Features:

- Nutritionally complete
- 4:1 ratio
- Convenient ready-to-feed liquid
- Great vanilla flavour or unflavoured
- Multi-fibre blend
- DHA and ARA
- Appropriate for enteral or oral feedings
- Contains sucralose
- Nutrient dense for children with low energy requirements
- Osmolality (at 1.5 kcal/mL):
  Vanilla 260 mOsm/kg H_2O
  Unflavoured 280 mOsm/kg H_2O
- Energy distribution:
  Protein 8.2%
  Carbohydrate 3.1%
  Fibre 1.5%
  Fat (LCT 100%) 88.7%
- Free water 77.8%
- Density 1.01g/mL

Indications:

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

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

Ordering Information:

Product Code	Product Packaging	Calories Per Carton
113354 – Vanilla	27 x 237 mL (8 fl oz)	356
113357 – Unflavoured	27 x 237 mL (8 fl oz)	356

Nutrition Information:

Nutrients	Per 100 mL	Per Carton (237 mL)
Energy, kcal (kJ)	150 (620)	356 (1469)
Protein, g	3.09	7.32
Carbohydrate, g	1.73	4.10
Dietary Fibre, g	1.12	2.65
Soluble, g	0.56	1.33
Insoluble, g	0.56	1.33
Fat, g	14.8	35.1
Saturated, g	2.2	5.2
+ Trans, g	0	0
Monounsaturated, g	8.3	19.7
Polyunsaturated, g	3.7	8.8
Arachidonic Acid, mg	55.0	131
Docosahexaenoic Acid, mg	55.0	131
Vitamins		
Vitamin A, IU	264	626
Vitamin D_3, IU	92.0	220
Vitamin E, IU	2.3	5.5
Vitamin K, mg	0.0056	0.0132
Thiamine, mg	0.15	0.36
Riboflavin, mg	0.15	0.36
Vitamin B_6, mg	0.15	0.36
Vitamin B_{12}, mg	0.00017	0.00040
Niacin, mg	1.5	3.6
Folic Acid, mg	0.0287	0.0680
Pantothenic Acid, mg	0.62	1.50
Biotin, mg	0.0041	0.0097
Vitamin C, mg	9.3	22.0
Choline, mg	51.5	122
Inositol, mg	4.1	9.7

Minerals/Trace Elements	Per 100 mL	Per Carton (237 mL)
Calcium, mg	88.4	210
Phosphorus, mg	88.4	210
Magnesium, mg	22.7	53.8
Iron, mg	1.5	3.6
Zinc, mg	1.2	2.8
Manganese, mg	0.180	0.427
Copper, mg	0.120	0.284
Iodine, mg	0.0185	0.0438
Molybdenum, mg	0.0062	0.0147
Chromium, mg	0.0032	0.0076
Selenium, mg	0.0071	0.0168
Sodium, mg	103	244
Potassium, mg	165	391
Chloride, mg	155	367
Carnitine, mg	8.3	19.7
Taurine, mg	6.3	14.9

Fibre is subtracted from the total carbohydrate when calculating the ketogenic ratio.

Ingredients (Unflavoured and Vanilla):

Water, Refined Vegetable Oil (High Oleic Sunflower, Soy, Palm), Sodium Caseinate (Milk), Whey Protein Concentrate (Milk), Soy Fibre, Corn Starch, Chicory Root Inulin, Citric Acid Esters of Mono- and Diglycerides, Dipotassium Phosphate, Gum Arabic, Calcium Chloride, Mortierella Alpina Oil*, Magnesium Acetate, Potassium Chloride, Crypthecodinium Cohnii Oil**, Microcrystalline Cellulose, Fructooligosaccharide (FOS), 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, 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, Biotin, Cholecalciferol, Cyanocobalamin.

Contains: Milk, Soy

Unflavoured version also contains Sugar.

Vanilla flavoured version contains Sugar, Artificial flavour (vanilla), and sucralose: 43 mg/237 mL.

Please see individual product labels for exact order of ingredients

*A source of Arachidonic Acid (ARA)

**A source of Docosahexaenoic Acid (DHA)

KetoCal® Family

Directions for Preparation:

For oral and tube feeding:

KetoCal 4:1 Powder

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 45-50°C (113-122°F).
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 37°C or 98°F) between each feed.
- Do not boil or microwave formula.
- Do not freeze. Recommended storage between 4°C-25°C (39°F-77°F).
- Once powdered formula is prepared, or liquid formula is open, use immediately or refrigerate promptly at 4°C/39°F 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
0.67 kcal/mL	9.5 g	91 mL	100 mL	110 mOsm/kg
0.8 kcal/mL	11.4 g	89 mL	100 mL	130 mOsm/kg
1 kcal/mL	14.3 g	86 mL	100 mL	170 mOsm/kg
1.5 kcal/mL	21.4 g	79 mL	100 mL	260 mOsm/kg

A scale is necessary for proper preparation of formula.

Storage

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

KetoCal 4:1 Powder: Once can has been opened, replace lid and store in a cool, dry place (not in a refrigerator) and use within one month.

KetoCal 4:1 LQ: Once opened, store in refrigerator. Discard if not consumed within 24 hours. Do not freeze.

Volume and Ordering Guide

		KetoCal 4:1 Powder		KetoCal 4:1 LQ (Liquid) Vanilla or Unflavoured	
Calories/day	Calories/mo	Cans/mo	Cases/mo	Cartons/mo	Cases/mo
600	18000	9	2	51	2
700	21000	10	2	59	3
800	24000	12	2	68	3
900	27000	13	3	76	3
1000	30000	15	3	85	4
1100	33000	16	3	93	4
1200	36000	18	3	102	4
1300	39000	19	4	110	5
1400	42000	20	4	118	5
1500	45000	22	4	127	5
1600	48000	23	4	135	5
1700	51000	25	5	144	6
1800	54000	26	5	152	6
1900	57000	28	5	161	6
2000	60000	29	5	169	7

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

Caution:

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

Habul
Diagnosed with MSUD

OTHER NUTRITIONALS

Monogen®

A milk protein-based powder, low in fat, and 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 (mOsm/kg):

  Dilution
  0.74 kcal/mL: 240 mOsm/kg H_2O
  1.0 kcal/mL: 365 mOsm/kg H_2O

Indications:

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

Ordering Information:

Product Code	Product Packaging	Calories Per Can
106033	6 x 400 g (14.1 oz)	1776

Nutrition Information:

Nutrients	Per 100 g	Per 100 kcal
Calories	441	100
Protein, g	12.8	2.9
Fat, g	12.9	2.9
MCT, g	10.9	2.5
LCT, g	2.0	0.45
Linoleic acid, g	0.87	0.20
α-Linolenic acid, g	0.18	0.04
ARA, mg	60.0	14.1
DHA, mg	60.0	14.1
Carbohydrate, g	68.6	15.6
Vitamins		
Vitamin A, IU	1158	263
Vitamin D_3, IU	428	97.2
Vitamin E, IU	6.6	1.5
Vitamin K, mg	0.0161	0.0037
Thiamine, mg	0.32	0.07
Riboflavin, mg	0.47	0.11
Vitamin B_6, mg	0.40	0.09
Vitamin B_{12}, mg	0.00057	0.00013
Niacin, mg	2.7	0.61
Folic Acid, mg	0.032	0.0144
Pantothenic Acid, mg	2.0	0.45
Biotin, mg	0.014	0.0032
Vitamin C, mg	53.9	12.2
Choline, mg	90.9	20.6
Inositol, mg	78.7	17.9
Minerals		
Calcium, mg	329	74.7
Phosphorous, mg	198	44.9
Magnesium, mg	39.6	9.0
Iron, mg	6.0	1.4
Zinc, mg	4.1	0.93
Manganese, mg	0.028	0.006
Copper, mg	0.323	0.0732
Iodine, mg	0.0796	0.0181
Molybdenum, mg	0.0216	0.0049
Chromium, mg	0.0089	0.002
Selenium, mg	0.0156	0.0036
Sodium, mg	189	42.9
Potassium, mg	357	81.2
Chloride, mg	271	61.6

Ingredients:

Maltodextrin, Skim Milk, Refined Vegetable Oil (Modified Palm Kernel And/Or Coconut Oil [Medium Chain Triglycerides]), Whey (Milk), Caseinate (Milk), Walnut Oil, Corn Syrup Solids, Sodium Citrate, Potassium Chloride, Calcium Carbonate, Magnesium Hydrogen Phosphate, Choline Chloride, *C. cohnii* Oil, *M. alpina* Oil, L-Valine, Inositol, L-Ascorbic Acid, L-Tryptophan, Sodium L-Ascorbate, Taurine, L-Isoleucine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, DL-Alpha Tocopheryl Acetate, Niacinamide, DL-Alpha Tocopherol, Calcium D-Pantothenate, Copper Sulfate, Manganese Sulfate, Pyridoxine Hydrochloride, Thiamine Chloride Hydrochloride, Vitamin A Acetate, Riboflavin, Folic Acid, Potassium Iodide, Chromium Chloride, Sodium Molybdate, Phylloquinone, D-Biotin, Sodium Selenite, Vitamin D_3.

Contains: Milk, Walnut Oil, Coconut Oil.

Administration:

- Intake is determined by a medical professional and is dependent on the age, body weight and medical condition of the patient.
- Regular monitoring of essential fatty acids is recommended.
- 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 fl oz)	100 mL
30 kcal/30 mL (1.0 kcal/mL)	22.7 g (4 Scoops)	80 mL (2 ½ fl oz)	100 mL

Unpacked, level scoops are approximations only. For accuracy, use a scale.

Once prepared, the formula should be stored in a refrigerator and kept no longer than 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 one month. Replace lid firmly after use.

Liquigen®

A high energy medium chain triglyceride (MCT) emulsion for conditions where MCTs are part of dietary management, such as long-chain fatty acid oxidation disorders or conditions managed by the ketogenic diet.

Main Features:

- Simplifies addition of MCTs to the diet
- Emulsified for better mixing
- 50% MCT and 50% water
- Unflavoured
- High energy: 4.5 kcal/mL
- Osmolality: 10 mOsm/kg H_2O
- Density: 0.97 g/mL
- For oral or enteral use
- Can be used in beverages and foods

Indications:

Conditions where MCTs are part of dietary management, such as:

- Conditions managed by the ketogenic diet
- Long-chain fatty acid oxidation disorders
- Other inborn errors of metabolism where MCTs may be beneficial
- Chylothorax
- Fat malabsorption
- Short bowel syndrome

Ordering Information:

Product Code	Product Packaging	Calories Per Bottle
169221 (Case)	4 x 250 mL (8.5 fl oz)	1125

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
+ Trans, g	0	0
MCT, g (%)	45.4 (96.4%)	114 (96.4%)
Minerals		
Sodium, mg	5.0	12.5

Ingredients:

Refined Vegetable Oil (Modified Palm Kernel and/or Coconut Oil (Medium Chain Triglycerides)), Water, Citric Acid Esters of Mono- and Diglycerides, 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 less than 5 years of age.
- **Shake well before use.**

Precautions:

- Not suitable for use as a sole source of nutrition.
- Not for parenteral use.

Storage:

- Store between 4°-25°C (39°-77°F).
- Once opened store in a refrigerator and use within 14 days.
- Always replace the bottle lid after use.

Duocal®

A powdered product providing fat and carbohydrate for increased caloric intake.

- 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_2O
- 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)

Ordering Information:

Product Code	Product Packaging	Calories Per Can
49828	6 x 400 g (14.1 oz)	1968

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
Minerals	
Sodium, mg	≤ 20.0
Potassium, mg	≤ 5.0
Chloride, mg	≤ 20.0
Calcium, mg	≤ 5.0
Phosphorus, mg	≤ 5.0

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 level and unpacked)

Measure	Weight	Calories
1 Scoop	5 g	25
1 tsp	2.6 g	13
1 Tbsp	8.5 g	42
¼ cup	30 g	148
½ cup	56 g	276
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 scale.

Precautions:

- Not for parenteral use.
- Not suitable as a sole source of nutrition.

Administration:

- Use under medical supervision. For individuals 1 year and above.
- Intake to be determined by a healthcare 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).

Main Features:

- Concentrated carbohydrate energy source – 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_2O
- 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.

Ordering Information:

Product Code	Product Packaging	Calories Per Can
89461	12 x 400 g (14.1 oz)	1536

Nutrition Information:

Nutrients	Per 100 g
Calories	384
Carbohydrate, g	96.0
Protein, g	0
Fat, g	0
Minerals	
Sodium, mg	2.0
Potassium, mg	0

Ingredients:

Maltodextrin.

Household Measures:

(All measures are level and unpacked)

Measure	Weight	Calories
1 Scoop	5 g	~20 kcal
½ tsp	1.2 g	4.6 kcal
1 tsp	2.4 g	9.3 kcal
1 Tbsp	7.3 g	27.8 kcal
¼ cup	29.0 g	111 kcal
⅓ cup	38.7 g	148 kcal
½ cup	58.0 g	223 kcal
1 cup	116 g	445 kcal

Based on standard dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a scale.

(For standard dry measures, 1 cup = 240 mL)

Precautions:

- Not for parenteral use.
- Not suitable as a sole source of nutrition.

Administration:

Intake to be determined by a healthcare professional and is dependent on the age, body weight and medical condition of the patient.

A scoop is provided in the can and holds approximately 5 g of powder (~20 kcal).

- 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.

Storage:

Store unopened can in a cool, dry place. Once opened, replace lid on can and store in a cool, dry place (not in refrigerator) and use contents within 1 month. Unfinished beverages and foods should be stored in a refrigerator for up to 24 hours.

Complete Amino Acid Mix

An unflavored, powdered mixture of essential and non-essential amino acids.

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_2O
- Approximate displacement: 0.75 mL/g

Indications:

- Dietary management of conditions requiring supplemental protein in the form of amino acids

Ordering Information:

Product Code	Product Packaging	Calories Per Can
53341	6 x 200 g (7 oz)	656

Nutrition Information:

Nutrients	Per 100 g
Calories	328
Protein Equivalent, g	82
Fat, g	None
Carbohydrate, g	None
Amino Acids, g	
L-Alanine	3.5
L-Arginine	7.66
L-Aspartic Acid	6.39
L-Cystine	2.4
L-Glutamic Acid	8.17
Glycine	6.0
L-Histidine	4.38
L-Isoleucine	5.95
L-Leucine	10.22
L-Lysine	7.55
L-Methionine	1.65
L-Phenylalanine	4.5
L-Proline	7.0
L-Serine	4.29
L-Threonine	5.0
L-Tryptophan	2.0
L-Tyrosine	4.3
L-Valine	6.5
L-Glutamine	0.7

Ingredients:

L-Lysine L-Glutamate, L-Leucine, L-Arginine, L-Proline, L-Valine, L-Aspartic Acid, Glycine, L-Isoleucine, L-Threonine, L-Phenylalanine, L-Histidine, L-Serine, L-Tyrosine, L-Alanine, L-Cystine, L-Tryptophan, L-Methionine, L-Glutamine, L-Glutamic Acid.

Household Measures:

(all measures are level and 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 dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a scale.

Precautions:

- Not for parenteral use.
- Not suitable as a sole source of nutrition.

Administration:

- Intake to be determined by a healthcare professional 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.
- It is best served as a chilled drink, mixed with water, fruit juices or other formulas. Complete Amino Acid Mix may also be added to soft, moist foods, such as applesauce.

Storage:

- Store in a cool, dry place. Once opened, use within one month. Always replace container lid after use.
- Once reconstituted, the prepared feeding should be stored in a refrigerator and must not be kept longer than 24 hours from the time of preparation. Stir or shake immediately before serving.

Essential Amino Acid Mix

An unflavored, powdered mixture of essential amino acids, including cystine and histidine.

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_2O
- Approximate displacement: 0.75 mL/g

Indications:

- Dietary management of urea cycle disorders
- Conditions in which a nutritionally complete feeding is not suitable or a modular approach is required

Ordering Information:

Product Code	Product Packaging	Calories Per Can
53342	6 x 200 g (7 oz)	632

Nutrition Information:

Nutrients	Per 100 g
Calories	316
Protein Equivalent, g	79
Fat, g	None
Carbohydrate, g	None
Amino Acids, g	
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 level and 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 dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a scale.

Precautions:

- Not for parenteral use.
- Not suitable as a sole source of nutrition.

Administration:

- Intake to be determined by a healthcare professional 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.
- It is best served as a chilled drink, mixed with water, fruit juices or other formulas. It may also be added to soft, moist foods, such as applesauce.

Storage:

- Store in a cool, dry place. Once opened, use within one month. Always replace container lid after use.
- Once reconstituted, the prepared feeding should be stored in a refrigerator and must not be kept longer than 24 hours from the time of preparation. Stir or shake immediately before serving.

Phlexy-Vits

A concentrated, powdered vitamin, mineral and trace element preparation designed to help meet the micronutrient requirements of older children (11 years and older) and adults.

Main Features:

- One 7 g packet supplies the majority of vitamins and minerals needed to help meet the DRI of individuals 11 years and older

Indications:

- Restrictive therapeutic diets

Ordering Information:

Product Code	Product Packaging	Calories Per Packet
49133	30 x 7 g	0.2

Nutrition Information:

Nutrients	Per 7 g packet
Calories	0.20
Protein, g	0.02
Fat, g	None
Carbohydrate, g	0.04
Vitamins	
Vitamin A, IU (mcg RE)	2664 (800)
Vitamin D, IU (mcg)	400 (10)
Vitamin E, IU (mg α -TE)	13.5 (9)
Vitamin K, mcg	70.0
Thiamine, mg	1.2
Riboflavin, mg	1.4
Vitamin B_6, mg	1.6
Vitamin B_{12}, mcg	5.0
Niacin, mg	20.0
Folic Acid, mcg	700
Pantothenic Acid, mg	5.0
Biotin, mcg	150
Vitamin C, mg	50.0
Minerals	
Calcium, mg	1000
Phosphorus, mg	775
Magnesium, mg	300
Iron, mg	15.1
Zinc, mg	11.1
Manganese, mg	1.5
Copper, mcg	1505
Iodine, mcg	150
Molybdenum, mcg	70.0
Chromium, mcg	30.0
Selenium, mcg	75.0
Sodium, mg	8.8
Potassium, mg	<1.4
Chloride, mg	<0.35

Ingredients:

Calcium Phosphate Dibasic, Magnesium Acetate, Guar Gum, L-Ascorbic Acid, Ferrous Sulfate, Dextrose, Zinc Sulfate, Nicotinamide, DL-Alpha Tocopheryl Acetate, Copper Gluconate, Calcium D-Pantothenate, Manganese Sulfate, Pyridoxine Hydrochloride, Thiamine Mononitrate, Riboflavin, Vitamin A Acetate, Folic Acid, Potassium Iodide, Sodium Molybdate, Sodium Selenite, D-Biotin, Chromium Chloride, Phylloquinone, Vitamin D_3, Cyanocobalamin.

Household Measures:

(all measures are level and 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 dry, household measurements. All measurements are level and unpacked. Household measurements are approximations only. For accuracy use a scale.

Precautions:

- Not for parenteral use.
- Not suitable for use as a sole source nutrition.

Administration:

- Add a small amount of water and mix to a smooth paste. Add the remaining water to give a final volume of approximately 100 mL.
- Mix one sachet of Phlexy-Vits to a smooth paste with a small amount of lemonade or fruit juice (approx. 45 mL). Dilute to a final volume of 150 mL (5 fl oz). The amount of lemonade/ juice and water used will vary according to taste.

Storage:

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

NOTES

NUTRICIA PRODUCT REFERENCE GUIDE

FOR CLINICIANS

NUTRICIA
LIFE-TRANSFORMING NUTRITION

To order or for additional information, call **(800) 365-7354**

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