

Vitaflo™ USA Product Guide



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Corporation



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VitaFlo is at the forefront of developing innovative specialized medical foods for Inherited Metabolic Diseases, Kidney Disease, and the medical Ketogenic Diet. Our aim is to create nutritional products that combine cutting-edge research with the lifestyle demands of modern living, ensuring the most acceptable products are available for nutrition management.

By constantly evolving to meet the nutrition needs of people with rare conditions, **VitaFlo** will continue to develop products which offer choice, flexibility and convenience to support a sustainable therapeutic diet.



Web: **VitaFloUSA.com**
Email: VitaFloNAM@VitaFlousa.com

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Vitafo products are for use under medical supervision.

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Vitafo products are for use under medical supervision.



Formula4Success®

The Formula4Success® program offers step-by-step, detailed information to support getting **Vitaflo** products. Whether it's navigating insurance, finding distributors or suppliers, we can help.

No cost

Benefit investigation

Claim support

Product access

Enrollment is simple.

- 1 Fill out the [Online Enrollment Form](#) or download the [Enrollment Form](#) at VitafloUSA.com/Formula4Success for your formula needs. For Spanish speakers: [Spanish Enrollment Form](#)
- 2 Patients should work with the healthcare professional to complete the form*, sign the **patient privacy statement**, and include a front and back copy of all active health insurance cards
- 3 Email Formula4Success@VitafloUSA.com or fax the completed form and documents** to **888-485-7193**

* All fields must be filled out to complete the enrollment process.

** You can click [here](#) to access the Detailed Written Order (DWO) and [here](#) for Letters of Medical Necessity (LOMN) templates, or download them at VitafloUSA.com/Formula4Success then send them via email along with recent and/or relevant clinical notes and labs to the **Formula4Success** team.



Enhancing Lives Together

Visit VitafloUSA.com/Formula4Success or call **800-520-6112**

Fruitivits and Single Dose Amino Acids are not eligible for **Formula4Success**.

METABOLIC PRODUCTS

PKU start™

Amino Acid-based Powdered Phenylalanine-free Infant Formula with Iron for use in the dietary management of Phenylketonuria (PKU) for infants and toddlers.



Features

- Suitable for infants and toddlers
- Up-to-date nutritional profile: Containing all essential vitamins and minerals
 - Consistent with scientific evidence in infant formula nutrition¹⁻³ and PKU management⁴
 - Includes DHA and ARA to help support brain and eye development^{5,6}
- Well tolerated: Infants with PKU demonstrate good tolerance, growth, and metabolic control in clinical evaluations⁷

Osmolality

435 mOsm/kg

Osmolarity

393 mOsm/L

See [page 89](#) for directions for use

Ordering/Reimbursement Information

| Flavor | Packaging | Reimbursement Code | HCPSC Code | Product Code |
|------------|----------------|--------------------|------------|--------------|
| Unflavored | 4 x 400 g cans | 12539-0025-90 | B4162 | 812539025900 |

PKU start — Ingredients: Dried Glucose Syrup, Vegetable Oil (High Oleic Sunflower, Canola, Sunflower), Potato Starch, L-Lysine L-Aspartate, and less than 2% of: L-Leucine, Calcium Glycerophosphate, L-Tyrosine, L-Arginine L-Aspartate, Glycine, Citric Acid Esters of Mono- and Diglycerides, L-Valine, L-Proline, L-Threonine, L-Glutamine, L-Isoleucine, Potassium Chloride, L-Serine, L-Alanine, L-Histidine, Calcium Citrate, Sodium Phosphate, Trisodium Citrate, Choline Bitartrate, L-Cystine, L-Tryptophan, M. Alpina Oil*, Potassium Citrate, L-Methionine, Schizochytrium Oil**, Citric Acid, Sodium Ascorbate, Magnesium Oxide, Inositol, Taurine, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, Mixed Tocopherols, L-Ascorbyl Palmitate, Niacinamide, DL-Alpha Tocopheryl Acetate, Calcium Pantothenate, Copper Sulfate, Vitamin A Acetate, Manganese Sulfate, Pyridoxine Hydrochloride, Thiamine Mononitrate, Riboflavin, Potassium Iodide, Folic Acid, Sodium Selenate, Chromium Chloride, Sodium Molybdate, Vitamin K1, Biotin, Vitamin D3, Vitamin B12.

*A source of arachidonic acid (ARA)

**A source of docosahexaenoic acid (DHA)

References:

¹EFSA NDA Panel. Scientific Opinion on the essential composition of infant and follow-on formulae. *EFSA Journal*. 2014; 12(7):3760.

²Raiten D, Tolbot J, Waters J. Assessment of nutrient requirements for infant formulas: [LSRO report]. *J Nutr*. 1998; 28(11).

³Koletzko B, Baker S, Cleggorn G, et al. Global standard for the composition of infant formula: recommendations of an ESPGHAN coordinated international expert group. *J Pediatr Gastroenterol Nutr*. 2005; 41(5): 584-99.

⁴Singh RH, Cunningham AC, Mofidi S, et al. Updated, web-based nutrition management guideline for PKU: An evidence and consensus based approach. *Mol Genet Metab*. 2016; 118(2):72-83.

⁵Birch EE, et al. The DIAMOND (DHA Intake and Measurement Of Neural Development) Study: a double-masked, randomized controlled clinical trial of the maturation of infant visual acuity as a function of the dietary level of docosahexaenoic acid. *Am J Clin Nutr*. 2010; 91(4):848-59.

⁶Agostoni C, et al. Plasma long-chain polyunsaturated fatty acids and neurodevelopment through the first 12 months of life in phenylketonuria. *Dev Med Child Neurol*. 2003; 45(4):257-61.

⁷Yilmaz O, Cochrane B, Wildgoose J, et al. Phenylalanine free infant formula in the dietary management of phenylketonuria. *Orphanet J Rare Dis*. 2023; 18:16.

PKU start Nutrition Information

| | Units | Per 100 g | Per 100 kcal |
|----------------------------|-------|-----------|--------------|
| Calories | kcal | 490 | 100 |
| Protein Equivalent | g | 14.3 | 2.9 |
| L-Phenylalanine | mg | - | - |
| Total Carbohydrate | g | 52 | 10.6 |
| Total Fat | g | 25 | 5 |
| Docosahexaenoic Acid (DHA) | mg | 110 | 22 |
| Arachidonic Acid (ARA) | mg | 110 | 22 |
| Linoleic Acid | mg | 3200 | 650 |

VITAMINS

| | | | |
|------------------|--------|----------|---------|
| Vitamin A | IU/mcg | 1370/411 | 276/84 |
| Vitamin D | IU/mcg | 400/10 | 81/2.0 |
| Vitamin E | IU/mg | 13/9 | 2.7/1.8 |
| Vitamin K | mcg | 35 | 7 |
| Thiamine | mcg | 350 | 71 |
| Riboflavin | mcg | 445 | 90 |
| Vitamin B6 | mcg | 380 | 77 |
| Vitamin B12 | mcg | 1.1 | 0.22 |
| Niacin | mcg | 3300 | 673 |
| Folic Acid | mcg | 68 | 13.8 |
| Pantothenic Acid | mcg | 2400 | 485 |
| Biotin | mcg | 18 | 3.6 |
| Vitamin C | mg | 54 | 11 |
| Choline | mg | 137 | 27.7 |
| Inositol | mg | 53 | 10.7 |

MINERALS

| | | | |
|------------|-----|-----|------|
| Calcium | mg | 370 | 75 |
| Phosphorus | mg | 290 | 59 |
| Magnesium | mg | 45 | 9.0 |
| Iron | mg | 7.4 | 1.5 |
| Zinc | mg | 5.8 | 1.18 |
| Manganese | mcg | 220 | 45 |
| Copper | mcg | 380 | 77 |
| Iodine | mcg | 97 | 19 |
| Selenium | mcg | 18 | 3.8 |
| Chromium | mcg | 13 | 2.6 |
| Molybdenum | mcg | 14 | 2.8 |
| Sodium | mg | 190 | 39 |
| Potassium | mg | 510 | 104 |
| Chloride | mg | 355 | 72 |

AMINO ACIDS

| | | |
|-----------------|---|------|
| L-Alanine | g | 0.63 |
| L-Arginine | g | 0.91 |
| L-Aspartic Acid | g | 1.67 |
| L-Cystine | g | 0.39 |
| L-Glutamine | g | 1.11 |
| Glycine | g | 1.6 |
| L-Histidine | g | 0.63 |
| L-Isoleucine | g | 1.1 |
| L-Leucine | g | 1.72 |
| L-Lysine | g | 1.07 |
| L-Methionine | g | 0.30 |
| L-Proline | g | 1.15 |
| L-Serine | g | 0.71 |
| L-Threonine | g | 1.11 |
| L-Tryptophan | g | 0.35 |
| L-Tyrosine | g | 1.62 |
| L-Valine | g | 1.27 |

OTHER

| | | |
|-------------|----|------|
| Taurine | mg | 3.70 |
| L-Carnitine | mg | 13 |

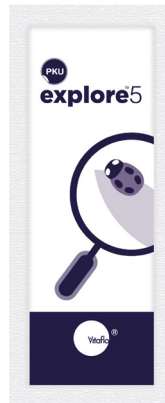


A powdered phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 6 months of age
- A blend of essential and non-essential amino acids, carbohydrate, arachidonic acid (ARA), docosahexaenoic acid (DHA), vitamins and minerals
- 1 packet provides 5 g protein equivalent
- Designed to form a semi-solid (spoonable) consistency when mixed with water to support introduction of solids in the PKU diet
- Available in Unflavored

See [page 90](#) for directions for use



| Ordering/Reimbursement Information | | | | |
|------------------------------------|---------------------|--------------------|---------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Unflavored | 30 x 12.5 g packets | 12539-0024-65 | B4157 & B4162 | 812539024651 |

PKU explore5 (Unflavored) — Ingredients: Sugar, L-Lysine L-Aspartate, Corn Starch, Modified Corn Starch, L-Leucine, L-Tyrosine, Glycine, L-Arginine Aspartate, L-Glutamine, L-Valine, L-Proline, L-Threonine, L-Isoleucine, Dried Glucose Syrup, Calcium Phosphate, L-Serine, L-Alanine, L-Histidine, Choline Bitartrate, L-Cystine, Magnesium Phosphate, L-Tryptophan, Potassium Chloride, L-Methionine, L-Arginine, High Oleic Sunflower Oil, Refined Tuna Oil (Fish), Calcium Glycerophosphate, Maltodextrin, Sodium Citrate, Sodium Ascorbate, M. Alpina Oil*, Salt, Taurine, Zinc Gluconate, L-Carnitine L-Tartrate, Potassium Phosphate, Ferrous Sulfate, Mono- and Diglycerides, DL-Alpha Tocopheryl Acetate, Vitamin D3, Calcium Pantothenate, Niacinamide, Sodium Selenite, Copper Gluconate, Retinyl Acetate, Vitamin B12, Chromium Chloride, Folic Acid, Biotin, Potassium Iodide, Manganese Gluconate, Riboflavin, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Vitamin K1, Tocopherols, Ascorbyl Palmitate.

Contains: Fish (tuna). **May contain:** Milk.

***A source of arachidonic acid (ARA).**

| PKU explore5 Nutrition Information | | | |
|------------------------------------|---------|-----------|-----------------------|
| | Units | Per 100 g | Per 12.5 g (1 packet) |
| Calories | kcal | 342 | 43 |
| Protein Equivalent | g | 40 | 5.0 |
| Total Carbohydrate | g | 42 | 5.2 |
| Sugars | g | 28 | 3.5 |
| Total Fat | g | 1.5 | 0.2 |
| Saturated Fat | g | 0.7 | 0.09 |
| Arachidonic Acid (ARA) | mg | 280 | 35 |
| Docosahexaenoic Acid (DHA) | mg | 140 | 17 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 470 | 59 |
| Vitamin D | mcg | 24 | 3.0 |
| Vitamin E | mg α TE | 8.7 | 1.1 |
| Vitamin C | mg | 80 | 10 |
| Vitamin K | mcg | 24 | 3.0 |
| Thiamin | mg | 0.90 | 0.11 |
| Riboflavin | mg | 1.4 | 0.17 |
| Niacin | mg | 6.2 | 0.77 |
| Vitamin B6 | mg | 1.0 | 0.12 |
| Folic Acid | mcg | 200 | 25 |
| Vitamin B12 | mcg | 3.3 | 0.41 |
| Biotin | mcg | 21 | 2.6 |
| Pantothenic Acid | mg | 6.6 | 0.82 |
| Choline | mg | 405 | 51 |
| MINERALS | | | |
| Sodium | mg | 200 | 25 |
| Potassium | mg | 450 | 56 |
| Chloride | mg | 450 | 56 |
| Calcium | mg | 1100 | 137 |
| Phosphorus | mg | 650 | 81 |
| Magnesium | mg | 120 | 15 |
| Iron | mg | 14.2 | 1.8 |
| Copper | mg | 0.72 | 0.09 |
| Zinc | mg | 10.0 | 1.2 |
| Manganese | mg | 0.23 | 0.03 |
| Iodine | mcg | 134 | 17 |
| Molybdenum | mcg | 36 | 4.5 |
| Selenium | mcg | 28 | 3.5 |
| Chromium | mcg | 27 | 3.4 |
| AMINO ACIDS | | | |
| L-Alanine | g | 1.71 | 0.21 |
| L-Arginine | g | 2.76 | 0.35 |
| L-Aspartic Acid | g | 4.38 | 0.55 |
| L-Cystine | g | 1.11 | 0.14 |
| L-Glutamine | g | 3.45 | 0.43 |
| Glycine | g | 4.36 | 0.55 |
| L-Histidine | g | 1.70 | 0.21 |
| L-Isoleucine | g | 2.98 | 0.37 |
| L-Leucine | g | 4.69 | 0.59 |
| L-Lysine | g | 3.10 | 0.39 |
| L-Methionine | g | 0.83 | 0.10 |
| L-Phenylalanine* | g | 0 | 0 |
| L-Proline | g | 3.12 | 0.39 |
| L-Serine | g | 1.94 | 0.24 |
| L-Threonine | g | 3.03 | 0.38 |
| L-Tryptophan | g | 0.94 | 0.12 |
| L-Tyrosine | g | 4.40 | 0.55 |
| L-Valine | g | 3.45 | 0.43 |
| L-Carnitine | mg | 44 | 5.5 |
| Taurine | mg | 88 | 11 |

*No added phenylalanine.



exploreTM10

A powdered phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

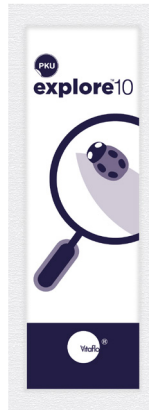
Features

- Suitable from 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, arachidonic acid (ARA), docosahexaenoic acid (DHA), vitamins and minerals
- 1 packet provides 10 g protein equivalent
- Designed to form a semi-solid (spoonable) consistency when mixed with water to support introduction of solids in the PKU diet
- Available in Orange and Raspberry flavors

Osmolality when prepared as a low volume drink:

25 g (1 packet) + 80 mL (2.7 fl oz) water = 1550 mOsm/kg

See [page 90](#) for directions for use



Ordering/Reimbursement Information

| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
|-----------|-------------------|--------------------|---------------|--------------|
| Raspberry | 30 x 25 g packets | 12539-0024-67 | B4157 & B4162 | 812539024675 |
| Orange | | 12539-0024-66 | | 812539024668 |

PKU explore10 (Orange) – Ingredients: Sugar, L-Lysine L-Aspartate, Corn Starch, Modified Corn Starch, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, L-Glutamine, L-Valine, L-Proline, L-Threonine, L-Isoleucine, Dried Glucose Syrup, Calcium Phosphate, Citric Acid, L-Serine, L-Alanine, L-Histidine, Choline Bitartrate, Natural Flavor, L-Cystine, Magnesium Phosphate, L-Tryptophan, Potassium Chloride, L-Methionine, L-Arginine, High Oleic Sunflower Oil, Refined Tuna Oil (Fish)*, Calcium Glycerophosphate, Maltodextrin, Sodium Citrate, Sodium Ascorbate, M. Alpina Oil**, Salt, Taurine, Zinc Gluconate, L-Carnitine L-Tartrate, Potassium Phosphate, Ferrous Sulfate, Mono- and Diglycerides, DL-Alpha Tocopheryl Acetate, Dipotassium Phosphate, Vitamin D3, Calcium Pantothenate, Niacinamide, Sodium Selenite, Copper Gluconate, Retinyl Acetate, Vitamin B12, Chromium Chloride, Folic Acid, Biotin, Potassium Iodide, Manganese Gluconate, Riboflavin, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Vitamin K1, Tocopherols, Ascorbyl Palmitate.

Contains: Fish (tuna). **May contain:** Milk.

Ingredient lists for all flavored options are available at VitaflouSA.com

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

****A source of arachidonic acid (ARA).**

PKU explore10 Nutrition Information

| | Units | Per 100 g | Per 25 g (1 packet) |
|----------------------------|---------|-----------|---------------------|
| Calories | kcal | 330 | 83 |
| Protein Equivalent | g | 40 | 10 |
| Total Carbohydrate | g | 39 | 9.8 |
| Sugars | g | 25 | 6.3 |
| Total Fat | g | 1.5 | 0.4 |
| Saturated Fat | g | 0.7 | 0.17 |
| Arachidonic Acid (ARA) | mg | 280 | 70 |
| Docosahexaenoic Acid (DHA) | mg | 140 | 35 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 470 | 117 |
| Vitamin D | mcg | 24 | 6.0 |
| Vitamin E | mg α TE | 8.7 | 2.2 |
| Vitamin C | mg | 80 | 20 |
| Vitamin K | mcg | 24 | 6.0 |
| Thiamin | mg | 0.90 | 0.22 |
| Riboflavin | mg | 1.4 | 0.35 |
| Niacin | mg | 6.2 | 1.5 |
| Vitamin B6 | mg | 1.0 | 0.25 |
| Folic Acid | mcg | 200 | 50 |
| Vitamin B12 | mcg | 3.3 | 0.82 |
| Biotin | mcg | 21 | 5.2 |
| Pantothenic Acid | mg | 6.6 | 1.6 |
| Choline | mg | 405 | 101 |
| MINERALS | | | |
| Sodium | mg | 200 | 50 |
| Potassium | mg | 450 | 112 |
| Chlo | mg | 450 | 112 |
| Calcium | mg | 1100 | 275 |
| Phosphorus | mg | 650 | 162 |
| Magnesium | mg | 120 | 30 |
| Iron | mg | 14.2 | 3.5 |
| Copper | mg | 0.72 | 0.18 |
| Zinc | mg | 10.0 | 2.5 |
| Manganese | mg | 0.23 | 0.06 |
| Iodine | mcg | 134 | 33 |
| Molybdenum | mcg | 36 | 9.0 |
| Selenium | mcg | 28 | 7.0 |
| Chromium | mcg | 27 | 6.7 |
| AMINO ACIDS | | | |
| L-Alanine | g | 1.71 | 0.43 |
| L-Arginine | g | 2.76 | 0.69 |
| L-Aspartic Acid | g | 4.38 | 1.10 |
| L-Cystine | g | 1.11 | 0.28 |
| L-Glutamine | g | 3.45 | 0.86 |
| Glycine | g | 4.36 | 1.09 |
| L-Histidine | g | 1.70 | 0.43 |
| L-Isoleucine | g | 2.98 | 0.75 |
| L-Leucine | g | 4.69 | 1.17 |
| L-Lysine | g | 3.10 | 0.78 |
| L-Methionine | g | 0.83 | 0.21 |
| L-Phenylalanine* | g | 0 | 0 |
| L-Proline | g | 3.12 | 0.78 |
| L-Serine | g | 1.94 | 0.49 |
| L-Threonine | g | 3.03 | 0.76 |
| L-Tryptophan | g | 0.94 | 0.24 |
| L-Tyrosine | g | 4.40 | 1.10 |
| L-Valine | g | 3.45 | 0.86 |
| L-Carnitine | mg | 44 | 11 |
| Taurine | mg | 88 | 22 |

*No added phenylalanine.

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A powdered phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, fat (including docosahexaenoic acid – DHA), vitamins and minerals
- 2 level scoops (33 g) provide 10 g protein equivalent
- Available in Unflavored and Vanilla flavor



Osmolality

Unflavored: 33 g (2 scoops) + 135 mL (4.5 fl oz) water = 815 mOsm/kg

Vanilla: 33 g (2 scoops) + 135 mL (4.5 fl oz) water = 862 mOsm/kg

See [page 91](#) for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|---------------|--------------------|---------------|---------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Unflavored | 6 x 400 g can | 60014-0051-80 | B4157 & B4162 | 5060014051806 |
| Vanilla | | 60014-0051-81 | | 5060014051813 |

PKU trio (Unflavored) – Ingredients: Dried Glucose Syrup, Blend of Vegetable Oils (High Oleic Sunflower Oil, Soybean Oil), L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, Calcium Phosphate, L-Arginine Aspartate, L-Valine, L-Glutamine, L-Proline, L-Threonine, L-Isoleucine, L-Serine, Sodium Citrate, Potassium Chloride, L-Alanine, L-Histidine, Magnesium Hydrogen Phosphate, Choline Bitartrate, L-Cystine, L-Tryptophan, Maltodextrin, C.cohnii Oil*, L-Methionine, L-Arginine, Citric Acid Esters of Mono and Di-Glycerides of Fatty Acids, Xanthan Gum, Magnesium Acetate, Sodium Caseinate (Milk), Sodium Ascorbate, Zinc Gluconate, Inositol, Taurine, Sodium Ascorbate (Preservative), L-Carnitine L-Tartrate, Ferrous Sulfate, Potassium Phosphate, DL-Alpha Tocopheryl Acetate, Mono And Diglycerides Of Fatty Acids, Manganese Gluconate, Nicotinamide, Vitamin D3, Copper Gluconate, Retinyl Acetate, Calcium Pantothenate, Pyridoxine Hydrochloride, Thiamin Hydrochloride, Riboflavin, Vitamin K (Phylloquinone), Folic Acid (Pteroylmonoglutamic Acid), Chromium Chloride, Potassium Iodine, Sodium Molybdate, Sodium Selenite, Biotin, Vitamin B12, Tocopherol (Preservative), Ascorbyl Palmitate (Preservative).

Contains: Milk.

Ingredient lists for all flavored options are available at VitaflorUSA.com

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

| PKU trio Nutrition Information | | | | | |
|--------------------------------|---------|------------|----------------------|-----------|----------------------|
| | Units | Unflavored | | Flavored | |
| | | Per 100 g | Per 16.5 g (1 scoop) | Per 100 g | Per 16.5 g (1 scoop) |
| Calories | kcal | 405 | 67 | 405 | 67 |
| Protein Equivalent | g | 30 | 5.0 | 30 | 5.0 |
| Total Carbohydrate | g | 38.9 | 6.4 | 38.9 | 6.4 |
| Sugars | g | 3.8 | 0.6 | 3.8 | 0.6 |
| Total Fat | g | 14.3 | 2.4 | 14.3 | 2.4 |
| VITAMINS | | | | | |
| Vitamin A | mcg RE | 416 | 68.6 | 416 | 68.6 |
| Vitamin D | mcg | 15 | 2.5 | 15 | 2.5 |
| Vitamin E | mg α TE | 7.8 | 1.3 | 7.8 | 1.3 |
| Vitamin C | mg | 54 | 8.9 | 54 | 8.9 |
| Vitamin K | mcg | 50 | 8.3 | 50 | 8.3 |
| Thiamin | mg | 1.0 | 0.17 | 1.0 | 0.17 |
| Riboflavin | mg | 1.2 | 0.20 | 1.2 | 0.20 |
| Niacin | mg | 8.5 | 1.4 | 8.5 | 1.4 |
| Vitamin B6 | mg | 1.4 | 0.23 | 1.4 | 0.23 |
| Folic Acid | mcg | 280 | 46.2 | 280 | 46.2 |
| Vitamin B12 | mcg | 2.4 | 0.40 | 2.4 | 0.40 |
| Biotin | mcg | 60 | 9.9 | 60 | 9.9 |
| Pantothenic Acid | mg | 4.0 | 0.66 | 4.0 | 0.66 |
| Choline | mg | 300 | 49.5 | 300 | 49.5 |
| Inositol | mg | 60 | 9.9 | 60 | 9.9 |
| MINERALS | | | | | |
| Sodium | mg | 360 | 59.4 | 360 | 59.4 |
| Potassium | mg | 522 | 86.1 | 522 | 86.1 |
| Chloride | mg | 460 | 75.9 | 460 | 75.9 |
| Calcium | mg | 850 | 140 | 850 | 140 |
| Phosphorus | mg | 624 | 103 | 624 | 103 |
| Magnesium | mg | 150 | 24.8 | 150 | 24.8 |
| Iron | mg | 10.8 | 1.8 | 10.8 | 1.8 |
| Copper | mcg | 900 | 149 | 900 | 149 |
| Zinc | mg | 10.8 | 1.8 | 10.8 | 1.8 |
| Manganese | mg | 1.6 | 0.26 | 1.6 | 0.26 |
| Iodine | mcg | 126 | 20.8 | 126 | 20.8 |
| Molybdenum | mcg | 72 | 11.9 | 72 | 11.9 |
| Selenium | mcg | 38 | 6.3 | 38 | 6.3 |
| Chromium | mcg | 44 | 7.3 | 44 | 7.3 |
| AMINO ACIDS | | | | | |
| L-Alanine | g | 1.16 | 0.19 | 1.16 | 0.19 |
| L-Arginine | g | 1.87 | 0.31 | 1.87 | 0.31 |
| L-Aspartic Acid | g | 2.96 | 0.49 | 2.96 | 0.49 |
| L-Cystine | g | 0.75 | 0.12 | 0.75 | 0.12 |
| L-Glutamine | g | 2.29 | 0.38 | 2.29 | 0.38 |
| Glycine | g | 2.95 | 0.49 | 2.95 | 0.49 |
| L-Histidine | g | 1.15 | 0.19 | 1.15 | 0.19 |
| L-Isoleucine | g | 2.02 | 0.33 | 2.02 | 0.33 |
| L-Leucine | g | 3.17 | 0.52 | 3.17 | 0.52 |
| L-Lysine | g | 2.09 | 0.34 | 2.09 | 0.34 |
| L-Methionine | g | 0.56 | 0.09 | 0.56 | 0.09 |
| L-Phenylalanine* | g | 0 | 0 | 0 | 0 |
| L-Proline | g | 2.11 | 0.35 | 2.11 | 0.35 |
| L-Serine | g | 1.32 | 0.22 | 1.32 | 0.22 |
| L-Threonine | g | 2.05 | 0.34 | 2.05 | 0.34 |
| L-Tryptophan | g | 0.64 | 0.11 | 0.64 | 0.11 |
| L-Tyrosine | g | 2.98 | 0.49 | 2.98 | 0.49 |
| L-Valine | g | 2.34 | 0.39 | 2.34 | 0.39 |
| L-Carnitine | mg | 32 | 5.3 | 32 | 5.3 |
| Taurine | mg | 64 | 11 | 64 | 11 |

*No added phenylalanine.



Ready-to-drink low Phenylalanine Medical Food for use in the dietary management of Phenylketonuria.

Features

- Suitable for ages 1 year and over
- A blend of whey protein isolate (glycomacropeptide – GMP), essential and non-essential amino acids, carbohydrate, fat (including docosahexaenoic acid – DHA), vitamins and minerals.
- 1 bottle provides 15 g protein equivalent from GMP and amino acids
- Available in Creamy, Neutral flavor
- Each bottle of **PKU sphere NEXT15** contains 23 mg of phenylalanine.



Osmolality

640 mOsm/kg

See page 92 for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|-------------|--------------------|---------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Neutral | 15 x 180 mL | 12539-0026-00 | B4157 & B4162 | 26006 |

PKU sphere™ NEXT15 (Neutral) – Ingredients: Water, Casein glycomacropeptide (milk), Sugar, Vegetable oils (High oleic sunflower oil, Canola oil). Contains 2% or less of: L-leucine, L-tyrosine, Calcium phosphate, Citric acid esters of mono- and diglycerides, Mono and diglycerides of fatty acids, Natural flavors, Magnesium acetate, L-arginine, L-histidine, Glycine, Choline bitartrate, L-tryptophan, Xanthan gum, L-cystine, Schizochytrium sp. oil*, Ascorbic acid, Potassium hydroxide, Zinc gluconate, Taurine, L-carnitine L-tartrate, Ferrous sulfate, L-methionine, Vitamin D3, DL-alpha tocopheryl acetate, Copper gluconate, Niacinamide, Retinyl Acetate, Manganese gluconate, Pantothenic acid, Sodium selenite, Vitamin K1, Biotin, Vitamin B12, Folic acid, Potassium iodide, Thiamine hydrochloride, Chromium chloride, Vitamin B6, Riboflavin, Sodium molybdate, Ascorbyl palmitate and Tocopherols (preservatives).

Contains: Milk.

*A source of docosahexaenoic acid (DHA).

PKU sphere NEXT15 Nutrition Information

| | Units | Per 100 mL | Per 180 mL (1 bottle) |
|----------------------|---------|------------|-----------------------|
| Calories | kcal | 90 | 161 |
| Protein Equivalent | g | 8.4 | 15 |
| L-Phenylalanine | mg | 13 | 23 |
| Total Carbohydrate | g | 4.3 | 7.7 |
| Sugars | g | 3.9 | 7.0 |
| Total Fat | g | 4.3 | 7.7 |
| Saturated Fat | g | 0.8 | 1.4 |
| Docosahexaenoic Acid | mg | 47 | 85 |
| VITAMINS | | | |
| Vitamin A | µg RE | 100 | 180 |
| Vitamin D | µg | 3.8 | 6.8 |
| Vitamin E | mg α TE | 1.4 | 2.5 |
| Vitamin C | mg | 10 | 18 |
| Vitamin K | µg | 9 | 16 |
| Thiamin | mg | 0.23 | 0.41 |
| Riboflavin | mg | 0.29 | 0.52 |
| Niacin | mg | 13 | 23 |
| Vitamin B6 | mg | 0.23 | 0.41 |
| Folic Acid | µg | 40 | 72 |
| Vitamin B12 | µg | 0.6 | 1.1 |
| Pantothenic Acid | mg | 0.8 | 1.4 |
| Biotin | µg | 7.6 | 13.7 |
| Choline | mg | 76 | 137 |
| MINERALS | | | |
| Sodium | mg | 125 | 225 |
| Potassium | mg | 108 | 194 |
| Chloride | mg | 2.3 | 4.1 |
| Calcium | mg | 249 | 448 |
| Phosphorus | mg | 154 | 277 |
| Magnesium | mg | 44 | 79 |
| Iron | mg | 2.9 | 5.2 |
| Copper | mg | 0.23 | 0.41 |
| Zinc | mg | 2.2 | 4 |
| Manganese | µg | 144 | 259 |
| Iodine | µg | 34 | 61 |
| Molybdenum | µg | 7.7 | 14 |
| Selenium | µg | 12 | 22 |
| Chromium | mg | 3.8 | 6.8 |
| Taurine | mg | 16 | 29 |
| Carnitine | mg | 7.9 | 14 |
| AMINO ACIDS | | | |
| L-Alanine | g | 0.35 | 0.63 |
| L-Arginine | g | 0.41 | 0.74 |
| L-Aspartic Acid | g | 0.57 | 1.03 |
| L-Cystine | g | 0.12 | 0.22 |
| L-Glutamine | g | 1.14 | 2.05 |
| Glycine | g | 0.30 | 0.54 |
| L-Histidine | g | 0.30 | 0.54 |
| L-Isoleucine | g | 0.60 | 1.08 |
| L-Leucine | g | 1.27 | 2.29 |
| L-Lysine | g | 0.49 | 0.88 |
| L-Methionine | g | 0.12 | 0.22 |
| L-Phenylalanine | mg | 13 | 23 |
| L-Proline | g | 0.68 | 1.22 |
| L-Serine | g | 0.43 | 0.77 |
| L-Threonine | g | 0.97 | 1.75 |
| L-Tryptophan | g | 0.17 | 0.31 |
| L-Tyrosine | g | 0.95 | 1.71 |
| L-Valine | g | 0.48 | 0.86 |



A ready-to-drink glycomacropeptide (GMP)-based low phenylalanine* medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of GMP, essential and non-essential amino acids, carbohydrate, fat (including docosahexaenoic acid – DHA), vitamins and minerals
- 1 container provides 20 g protein equivalent from GMP and amino acids
- Available in Banana, Chocolate and Vanilla flavors

* Each container of PKU sphere liquid contains 30 mg of phenylalanine.

Osmolality

420 mOsm/kg

See page 93 for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|-------------------------------|--------------------|---------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Banana | 15 x 237 mL (8 fl oz) bottles | 12539-0026-11 | B4162 & B4157 | 81253902612 |
| Chocolate | 15 x 237 mL (8 fl oz) bottles | 12539-0026-10 | | 812539026105 |
| Vanilla | 15 x 237 mL (8 fl oz) cartons | 12539-0025-84 | | 812539025849 |

PKU sphere20 liquid BANANA (artificially flavored) – Ingredients: Water, Whey protein isolate (milk), Natural flavors. Contains 2% or less of: Sugar, L-leucine, L-tyrosine, L-arginine, Magnesium phosphate, Calcium phosphate, Soy lecithin, L-histidine, Calcium lactate, Choline bitartrate, Cellulose gum, Glycine, L-tryptophan, Schizochytrium sp. oil, L-cystine, L-lysine, L-aspartate, Potassium hydroxide, Ascorbic acid, Zinc gluconate, Sucralose, Ferrous sulfate, L-methionine, DL-alpha tocopheryl acetate, Copper gluconate, Niacinamide, Manganese gluconate, Calcium pantothenate, Thiamine Hydrochloride, Beta carotene, Pyridoxine Hydrochloride, Riboflavin, Vitamin A acetate, Tocopherols (preservative), Folic Acid, Potassium iodide, Ascorbyl palmitate (preservative), Sodium selenite, Sodium molybdate, Chromium Chloride, Vitamin K1, Biotin, Vitamin D3, Vitamin B12. **Contains:** Milk, Soy.

PKU sphere20 liquid CHOCOLATE (artificially flavored) – Ingredients: Water, Whey protein isolate (milk), Contains 2% or less of: Sugar, L-leucine, L-tyrosine, L-arginine, Magnesium phosphate, Calcium phosphate, Soy lecithin, L-histidine, Calcium lactate, Choline bitartrate, Cellulose gum, Glycine, Natural flavors, L-tryptophan, Schizochytrium sp. oil, L-cystine, L-lysine, L-aspartate, Potassium hydroxide, Ascorbic acid, Zinc gluconate, Sucralose, Ferrous sulfate, L-methionine, DL-alpha tocopheryl acetate, Copper gluconate, Niacinamide, Manganese gluconate, Calcium pantothenate, Thiamine Hydrochloride, Beta carotene, Pyridoxine Hydrochloride, Riboflavin, Vitamin A acetate, Tocopherols (preservative), Folic Acid, Potassium iodide, Ascorbyl palmitate (preservative), Sodium selenite, Sodium molybdate, Chromium Chloride, Vitamin K1, Biotin, Vitamin D3, Vitamin B12. **Contains:** Milk, Soy.

PKU sphere20 liquid Vanilla (artificially flavored)– Ingredients: Water, Whey Protein Isolate (Milk). Contains 2% or less of: Sugar, Natural and Artificial Flavor, L-Leucine, L-Tyrosine, L-Arginine, Magnesium Phosphate, Calcium Phosphate, Canola Lecithin, L-Histidine, Calcium Lactate, Cellulose Gel and Gum, Choline Bitartrate, Glycine, L-Tryptophan, Schizochytrium Sp Oil*, L-Cystine, L-Lysine, L-Aspartate, Ascorbic Acid, Maltodextrin, Zinc Sulfate, Sucralose, Ferrous Sulfate, L-Methionine, High Oleic Sunflower Oil, Di-Alpha Tocopheryl Acetate, Copper Gluconate, Niacinamide, Manganese Gluconate, Calcium Pantothenate, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin A Palmitate, Folic Acid, Potassium Iodide, Sodium Selenite, Sodium Molybdate, Chromium Chloride, Vitamin K1, Biotin, Vitamin D3, Vitamin B12, Ascorbyl Palmitate (Preservative), Tocopherols (Preservative), Dimethylpolysiloxane. **Contains:** Milk.

*A source of docosahexaenoic acid (DHA).



| PKU sphere20 liquid Nutrition Information | | | | | | | |
|---|---------|---------------|-----------------------|------------------|-----------------------|----------------|-----------------------|
| | Units | Banana Flavor | | Chocolate Flavor | | Vanilla Flavor | |
| | | Per 100 mL | Per 237 mL (1 bottle) | Per 100 mL | Per 237 mL (1 bottle) | Per 100 mL | Per 237 mL (1 carton) |
| Calories | kcal | 53 | 125 | 50 | 120 | 50 | 120 |
| Protein Equivalent | g | 8.4 | 20 | 8.4 | 20 | 8.3 | 20 |
| Total Carbohydrate | g | 3.6 | 8.5 | 2.8 | 6.6 | 2.8 | 6.6 |
| Sugars | g | 1.8 | 4.3 | 1.8 | 4.3 | 1.8 | 4.3 |
| Total Fat | g | 0.5 | 1.2 | 0.5 | 1.2 | 0.5 | 1.2 |
| Saturated Fat | g | 0 | 0 | 0 | 0 | 0 | 0 |
| Docosahexaenoic Acid (DHA) | mg | 46 | 109 | 46 | 109 | 46 | 109 |
| VITAMINS | | | | | | | |
| Vitamin A | µg RE | 150 | 355 | 150 | 355 | 110 | 261 |
| Vitamin D | µg | 1.8 | 4.3 | 1.8 | 4.3 | 2.1 | 5.0 |
| Vitamin E | mg α TE | 1.4 | 3.3 | 1.4 | 3.3 | 1.6 | 3.8 |
| Vitamin C | mg | 8.1 | 19 | 8.1 | 19 | 9.2 | 22 |
| Vitamin K | µg | 9 | 21 | 9 | 21 | 9.7 | 23 |
| Thiamin | mg | 0.22 | 0.52 | 0.22 | 0.52 | 0.25 | 0.59 |
| Riboflavin | mg | 0.22 | 0.52 | 0.22 | 0.52 | 0.25 | 0.59 |
| Niacin | mg | 1.2 | 2.8 | 1.2 | 2.8 | 1.4 | 3.3 |
| Vitamin B6 | mg | 0.19 | 0.45 | 0.19 | 0.45 | 0.21 | 0.50 |
| Folic Acid | µg | 38 | 90 | 38 | 90 | 43 | 102 |
| Vitamin B12 | µg | 0.6 | 1.4 | 0.6 | 1.4 | 0.68 | 1.6 |
| Pantothenic acid | mg | 0.7 | 1.7 | 0.7 | 1.7 | 0.84 | 2.0 |
| Biotin | µg | 4.9 | 12 | 4.9 | 12 | 5.5 | 13 |
| Choline | mg | 75 | 178 | 75 | 178 | 84 | 199 |
| MINERALS | | | | | | | |
| Sodium | mg | 130 | 308 | 130 | 308 | 120 | 284 |
| Potassium | mg | 107 | 254 | 107 | 254 | 100 | 237 |
| Chloride | mg | 0 | 0 | 0 | 0 | 0 | 0 |
| Calcium | mg | 151 | 358 | 151 | 358 | 170 | 403 |
| Phosphorus | mg | 151 | 358 | 151 | 358 | 170 | 403 |
| Magnesium | mg | 45 | 107 | 45 | 107 | 50 | 118 |
| Iron | mg | 2.8 | 6.6 | 2.8 | 6.6 | 3.1 | 7.3 |
| Copper | mg | 0.22 | 0.52 | 0.22 | 0.52 | 0.25 | 0.59 |
| Zinc | mg | 2.5 | 5.9 | 2.5 | 5.9 | 2.8 | 6.6 |
| Manganese | mg | 0.15 | 0.36 | 0.15 | 0.36 | 0.17 | 0.40 |
| Iodine | µg | 31 | 74 | 31 | 74 | 35 | 83 |
| Molybdenum | µg | 7.5 | 18 | 7.5 | 18 | 8.4 | 20 |
| Selenium | µg | 12 | 28 | 12 | 28 | 13 | 31 |
| Chromium | µg | 4.5 | 11 | 4.5 | 11 | 5.1 | 12 |
| AMINO ACIDS | | | | | | | |
| L-Alanine | g | 0.35 | 0.83 | 0.35 | 0.83 | 0.35 | 0.83 |
| L-Arginine | g | 0.41 | 0.97 | 0.41 | 0.97 | 0.41 | 0.97 |
| L-Aspartic acid | g | 0.55 | 1.31 | 0.55 | 1.31 | 0.55 | 1.30 |
| L-Cystine | g | 0.10 | 0.24 | 0.10 | 0.24 | 0.10 | 0.24 |
| L-Glutamine | g | 1.14 | 2.70 | 1.14 | 2.70 | 1.14 | 2.70 |
| Glycine | g | 0.30 | 0.71 | 0.30 | 0.71 | 0.30 | 0.71 |
| L-Histidine | g | 0.30 | 0.71 | 0.30 | 0.71 | 0.30 | 0.71 |
| L-Isoleucine | g | 0.60 | 1.42 | 0.60 | 1.42 | 0.60 | 1.42 |
| L-Leucine | g | 1.27 | 3.00 | 1.27 | 3.0 | 1.27 | 3.00 |
| L-Lysine | g | 0.40 | 0.95 | 0.40 | 0.95 | 0.40 | 0.95 |
| L-Methionine | g | 0.12 | 0.28 | 0.12 | 0.28 | 0.12 | 0.28 |
| L-Phenylalanine | mg | 13 | 30 | 13 | 30 | 13 | 30 |
| L-Proline | g | 0.68 | 1.61 | 0.68 | 1.61 | 0.68 | 1.61 |
| L-Serine | g | 0.43 | 1.00 | 0.43 | 1.00 | 0.43 | 1.00 |
| L-Threonine | g | 0.97 | 2.30 | 0.97 | 2.30 | 0.97 | 2.30 |
| L-Tryptophan | g | 0.17 | 0.40 | 0.17 | 0.40 | 0.17 | 0.40 |
| L-Tyrosine | g | 0.95 | 2.25 | 0.95 | 2.25 | 0.95 | 2.25 |
| L-Valine | g | 0.48 | 1.14 | 0.48 | 1.14 | 0.48 | 1.14 |



A powdered glycomacropeptide (GMP)-based low phenylalanine* medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of GMP, essential and non-essential amino acids, carbohydrate, fat (including docosahexaenoic acid – DHA), vitamins and minerals
- 1 packet provides 15 g protein equivalent from GMP and amino acids
- Available in Vanilla and Red Berry flavors

*Each packet of PKU sphere15 contains 23 mg of phenylalanine.

Osmolality

Vanilla: 27 g (1 packet) + 120 mL (4 fl oz) water = 572 mOsm/kg
 Red Berry: 27 g (1 packet) + 120 mL (4 fl oz) water = 609 mOsm/kg

See [page 94](#) for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|-------------------|--------------------|---------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Vanilla | 30 x 27 g packets | 12539-0021-43 | B4162 & B4157 | 812539021438 |
| Red Berry | | 12539-0021-13 | | 812539021131 |

PKU sphere15 Vanilla (artificially flavored) – Ingredients: Whey Protein Isolate (Milk), L-Leucine, Sugar, L-Tyrosine, Natural and Artificial Flavor, Modified Corn Starch, Soy Lecithin, L-Arginine, Calcium Lactate, Magnesium Phosphate, Calcium Phosphate, Dried Corn Syrup, L-Histidine, Choline Bitartrate, Glycine, Refined Tuna Oil (Fish)*, L-Tryptophan, L-Lysine L-Aspartate, L-Cystine, Sodium Ascorbate, Zinc Gluconate, Maltodextrin, Dipotassium Phosphate, Ferrous Sulfate, L-Methionine, Sucralose, DL-Alpha Tocopheryl Acetate, Potassium Iodide, Mono- And Diglycerides, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Copper Gluconate, Niacinamide, Manganese Gluconate, Vitamin A Acetate, Calcium Pantothenate, Vitamin D3, Vitamin B12, Biotin, Folic Acid, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin K1, Tocopherols (Preservative).

Contains: Fish (tuna), Milk, and Soy.

Ingredient lists for all flavored options are available at VitaflouUSA.com

*A source of docosahexaenoic acid (DHA).

| PKU sphere15 Nutrition Information | | | |
|------------------------------------|---------|-----------|---------------------|
| | Units | Per 100 g | Per 27 g (1 packet) |
| Calories | kcal | 340 | 90 |
| Protein Equivalent | g | 56 | 15 |
| Total Carbohydrate | g | 18 | 4.9 |
| Sugars | g | 7.0 | 1.9 |
| Total Fat | g | 4.5 | 1.2 |
| Saturated Fat | g | 1.0 | 0.3 |
| Docosahexaenoic Acid (DHA) | mg | 314 | 85 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 690 | 186 |
| Vitamin D | mcg | 12 | 3.2 |
| Vitamin E | mg α TE | 14 | 3.8 |
| Vitamin C | mg | 80 | 22 |
| Vitamin K | mcg | 59 | 16 |
| Thiamin | mg | 1.5 | 0.40 |
| Riboflavin | mg | 1.5 | 0.40 |
| Niacin | mg | 8.6 | 2.3 |
| Vitamin B6 | mg | 1.4 | 0.38 |
| Folic Acid | mcg | 260 | 70 |
| Vitamin B12 | mcg | 4.1 | 1.1 |
| Biotin | mcg | 32 | 8.6 |
| Pantothenic Acid | mg | 5.1 | 1.4 |
| Choline | mg | 510 | 138 |
| MINERALS | | | |
| Sodium | mg | 810 | 219 |
| Potassium | mg | 590 | 159 |
| Chloride | mg | 20 | 5.4 |
| Calcium | mg | 1010 | 273 |
| Phosphorus | mg | 1050 | 283 |
| Magnesium | mg | 290 | 78 |
| Iron | mg | 19 | 5.1 |
| Copper | mg | 1.5 | 0.40 |
| Zinc | mg | 19 | 5.1 |
| Manganese | mg | 1.0 | 0.27 |
| Iodine | mcg | 210 | 57 |
| Molybdenum | mcg | 51 | 14 |
| Selenium | mcg | 76 | 20 |
| Chromium | mcg | 30 | 8.1 |
| AMINO ACIDS | | | |
| L-Alanine | g | 2.36 | 0.64 |
| L-Arginine | g | 2.73 | 0.74 |
| L-Aspartic Acid | g | 3.73 | 1.01 |
| L-Cystine | g | 0.69 | 0.19 |
| L-Glutamine | g | 7.72 | 2.08 |
| Glycine | g | 2.02 | 0.55 |
| L-Histidine | g | 2.01 | 0.54 |
| L-Isoleucine | g | 4.06 | 1.10 |
| L-Leucine | g | 8.62 | 2.33 |
| L-Lysine | g | 2.72 | 0.73 |
| L-Methionine | g | 0.80 | 0.22 |
| L-Phenylalanine | mg | 87 | 23 |
| L-Proline | g | 4.58 | 1.24 |
| L-Serine | g | 2.88 | 0.78 |
| L-Threonine | g | 6.55 | 1.77 |
| L-Tryptophan | g | 1.15 | 0.31 |
| L-Tyrosine | g | 6.43 | 1.74 |
| L-Valine | g | 3.27 | 0.88 |



A powdered glycomacropeptide (GMP)-based low phenylalanine* medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of GMP, essential and non-essential amino acids, carbohydrate, fat (including docosahexaenoic acid – DHA), vitamins and minerals
- 1 packet provides 20 g protein equivalent from GMP and amino acids
- Available in Vanilla, Red Berry, Chocolate, Banana, and Lemon flavors

*Each packet of PKU sphere20 contains 30 mg of phenylalanine.



Osmolality

Average osmolality: 35 g (1 packet) + 120 mL (4 fl oz) = 800 mOsm/kg

See [page 94](#) for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|-------------------|--------------------|---------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Vanilla | 30 x 35 g packets | 12539-0021-12 | B4157 & B4162 | 812539021124 |
| Red Berry | | 12539-0021-11 | | 812539021117 |
| Chocolate | | 12539-0022-05 | | 812539022053 |
| Banana | | 12539-0025-82 | | 812539025825 |
| Lemon | | 12539-0025-80 | | 812539025801 |

PKU sphere20 (Vanilla) – Ingredients: Whey Protein Isolate (Milk), L-Leucine, Sugar, L-Tyrosine, Natural and Artificial Flavor, Modified Corn Starch, Soy Lecithin, L-Arginine, Calcium Lactate, Magnesium Phosphate, Calcium Phosphate, Corn Syrup, L-Histidine, Choline Bitartrate, Glycine, Refined Tuna Oil (Fish)*, L-Tryptophan, L-Lysine L-Aspartate, L-Cystine, Sodium Ascorbate, Zinc Gluconate, Maltodextrin, Dipotassium Phosphate, Ferrous Sulfate, L-Methionine, Sucralose, DL-Alpha Tocopheryl Acetate, Potassium Iodide, Mono- and Diglycerides, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Copper Gluconate, Niacinamide, Manganese Gluconate, Vitamin A Acetate, Calcium Pantothenate, Vitamin D3, Vitamin B12, Biotin, Folic Acid, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin K1, Tocopherols (Preservative).

Contains: Fish (tuna), Milk, and Soy.

Ingredient lists for all flavored options are available at VitaFloUSA.com

*A source of docosahexaenoic acid (DHA).

| PKU sphere20 Nutrition Information | | | | | |
|------------------------------------|---------|---------------------------------------|-------------------------------|----------------------------|---------------------------|
| | Units | Vanilla/Red Berry per 35 g (1 packet) | Chocolate per 35 g (1 packet) | Banana per 35 g (1 packet) | Lemon per 35 g (1 packet) |
| Calories | kcal | 120 | 120 | 120 | 120 |
| Protein Equivalent | g | 20 | 20 | 20 | 20 |
| Total Carbohydrate | g | 6.3 | 6.3 | 6.3 | 6.3 |
| Sugars | g | 2.5 | 3.0 | 3.0 | 3.0 |
| Total Fat | g | 1.6 | 1.6 | 1.6 | 1.6 |
| Saturated Fat | g | 0.4 | 0.4 | 0.4 | 0.4 |
| Docosahexaenoic Acid (DHA) | mg | 110 | 110 | 110 | 110 |
| VITAMINS | | | | | |
| Vitamin A | mcg RE | 241 | 241 | 241 | 241 |
| Vitamin D | mcg | 4.2 | 4.2 | 4.2 | 4.2 |
| Vitamin E | mg α TE | 4.9 | 4.9 | 4.9 | 4.9 |
| Vitamin C | mg | 28 | 28 | 28 | 28 |
| Vitamin K | mcg | 21 | 21 | 21 | 21 |
| Thiamin | mg | 0.52 | 0.52 | 0.52 | 0.52 |
| Riboflavin | mg | 0.52 | 0.52 | 0.52 | 0.52 |
| Niacin | mg | 3.0 | 3.0 | 3.0 | 3.0 |
| Vitamin B6 | mg | 0.49 | 0.49 | 0.49 | 0.49 |
| Folic Acid | mcg | 91 | 91 | 91 | 91 |
| Vitamin B12 | mcg | 1.4 | 1.4 | 1.4 | 1.4 |
| Biotin | mcg | 11 | 11 | 11 | 11 |
| Pantothenic Acid | mg | 1.8 | 1.8 | 1.8 | 1.8 |
| Choline | mg | 178 | 178 | 178 | 178 |
| MINERALS | | | | | |
| Sodium | mg | 283 | 283 | 283 | 283 |
| Potassium | mg | 206 | 206 | 206 | 206 |
| Chloride | mg | 7.0 | 7.0 | 7.0 | 7.0 |
| Calcium | mg | 353 | 353 | 353 | 353 |
| Phosphorus | mg | 367 | 367 | 367 | 367 |
| Magnesium | mg | 101 | 101 | 101 | 101 |
| Iron | mg | 6.6 | 6.6 | 6.6 | 6.6 |
| Copper | mg | 0.52 | 0.52 | 0.52 | 0.52 |
| Zinc | mg | 6.6 | 6.6 | 6.6 | 6.6 |
| Manganese | mg | 0.35 | 0.35 | 0.35 | 0.35 |
| Iodine | mcg | 74 | 74 | 74 | 74 |
| Molybdenum | mcg | 18 | 18 | 18 | 18 |
| Selenium | mcg | 27 | 27 | 27 | 27 |
| Chromium | mcg | 11 | 11 | 11 | 11 |
| AMINO ACIDS | | | | | |
| L-Alanine | g | 0.83 | 0.83 | 0.83 | 0.83 |
| L-Arginine | g | 0.96 | 0.96 | 0.96 | 0.96 |
| L-Aspartic Acid | g | 1.31 | 1.31 | 1.31 | 1.31 |
| L-Cystine | g | 0.24 | 0.24 | 0.24 | 0.24 |
| L-Glutamine | g | 2.70 | 2.70 | 2.70 | 2.70 |
| Glycine | g | 0.71 | 0.71 | 0.71 | 0.71 |
| L-Histidine | g | 0.70 | 0.70 | 0.70 | 0.70 |
| L-Isoleucine | g | 1.42 | 1.42 | 1.42 | 1.42 |
| L-Leucine | g | 3.02 | 3.02 | 3.02 | 3.02 |
| L-Lysine | g | 0.95 | 0.95 | 0.95 | 0.95 |
| L-Methionine | g | 0.28 | 0.28 | 0.28 | 0.28 |
| L-Phenylalanine | mg | 30 | 30 | 30 | 30 |
| L-Proline | g | 1.60 | 1.60 | 1.60 | 1.60 |
| L-Serine | g | 1.01 | 1.01 | 1.01 | 1.01 |
| L-Threonine | g | 2.29 | 2.29 | 2.29 | 2.29 |
| L-Tryptophan | g | 0.40 | 0.40 | 0.40 | 0.40 |
| L-Tyrosine | g | 2.25 | 2.25 | 2.25 | 2.25 |
| L-Valine | g | 1.14 | 1.14 | 1.14 | 1.14 |



A powdered phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, docosahexaenoic acid (DHA), vitamins and minerals
- 1 packet provides 15 g protein equivalent
- Designed to be mixed with water or other permitted beverages to prepare a low volume drink
- Available in Unflavored, Orange, Lemon, and Tropical flavors

Osmolality

25 g (1 packet) + 90 mL (3 fl oz) water = 1705 mOsm/kg

See page 95 for directions for use



Ordering/Reimbursement Information

| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
|------------|-------------------|--------------------|---------------|--------------|
| Unflavored | 30 x 25 g packets | 12539-0024-87 | B4162 & B4157 | 812539024873 |
| Tropical | | 12539-0024-90 | | 812539024903 |
| Orange | | 12539-0024-89 | | 812539024897 |
| Lemon | | 12539-0024-88 | | 812539024880 |

PKU express15 plus (Unflavored) – Ingredients: L-Lysine L-Aspartate, Maltodextrin, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, L-Valine, L-Glutamine, L-Proline, L-Threonine, L-Isoleucine, Calcium Phosphate, Corn Starch, L-Serine, Corn Syrup, L-Alanine, L-Histidine, Magnesium Phosphate, Refined Tuna Oil (Fish)*, Potassium Citrate, Choline Bitartrate, L-Cystine, L-Tryptophan, L-Methionine, L-Arginine, Modified Corn Starch, Sodium Chloride, Sodium Citrate, Xanthan Gum, Sodium Ascorbate, Soy Lecithin, Taurine, Zinc Gluconate, L-Carnitine L-Tartrate, Potassium Phosphate, Ferrous Sulfate, DL-Alpha Tocopheryl Acetate, Mono- and Diglycerides, Ascorbic Acid, Sodium Selenite, Copper Gluconate, Vitamin D3, Manganese Gluconate, Niacinamide, Vitamin A Acetate, Calcium Pantothenate, Chromium Chloride, Vitamin B12, Biotin, Tocopherols (Preservative), Pyridoxine Hydrochloride, Potassium Iodide, Folic Acid, Thiamine Hydrochloride, Riboflavin, Sodium Molybdate, Vitamin K1.

Contains: Fish (tuna) and Soy. **May contain:** Milk.

Ingredient lists for all flavored options are available at VitafloUSA.com

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

| PKU express plus15 Nutrition Information | | | | | |
|--|---------|------------|---------------------|-----------|---------------------|
| | Units | Unflavored | | Flavored | |
| | | Per 100 g | Per 25 g (1 packet) | Per 100 g | Per 25 g (1 packet) |
| Calories | kcal | 316 | 79 | 306 | 77 |
| Protein Equivalent | g | 60 | 15 | 60 | 15 |
| Total Carbohydrate | g | 14 | 3.5 | 11.5 | 2.9 |
| Sugars | g | 1.2 | 0.3 | 2.9 | 0.7 |
| Total Fat | g | 2.2 | 0.6 | 2.2 | 0.6 |
| Saturated Fat | g | 0.7 | 0.2 | 0.7 | 0.2 |
| Docosahexaenoic Acid (DHA) | mg | 400 | 100 | 400 | 100 |
| VITAMINS | | | | | |
| Vitamin A | mcg RE | 690 | 172 | 690 | 172 |
| Vitamin D | mcg | 24 | 6.0 | 24 | 6.0 |
| Vitamin E | mg α TE | 12 | 3.0 | 12 | 3.0 |
| Vitamin C | mg | 97 | 24 | 97 | 24 |
| Vitamin K | mcg | 62 | 15 | 62 | 15 |
| Thiamin | mg | 1.7 | 0.42 | 1.7 | 0.42 |
| Riboflavin | mg | 2.0 | 0.50 | 2.0 | 0.50 |
| Niacin | mg | 8.8 | 2.2 | 8.8 | 2.2 |
| Vitamin B6 | mg | 2.4 | 0.60 | 2.4 | 0.60 |
| Folic Acid | mcg | 266 | 66 | 266 | 66 |
| Vitamin B12 | mcg | 4.2 | 1.0 | 4.2 | 1.0 |
| Pantothenic Acid | mg | 5.0 | 1.2 | 5.0 | 1.2 |
| Biotin | mcg | 33 | 8.2 | 33 | 8.2 |
| Choline | mg | 533 | 133 | 533 | 133 |
| MINERALS | | | | | |
| Sodium | mg | 373 | 93 | 373 | 93 |
| Potassium | mg | 648 | 162 | 648 | 162 |
| Chloride | mg | 373 | 93 | 373 | 93 |
| Calcium | mg | 1060 | 265 | 1060 | 265 |
| Phosphorus | mg | 951 | 238 | 951 | 238 |
| Magnesium | mg | 293 | 73 | 293 | 73 |
| Iron | mg | 19 | 4.7 | 19 | 4.7 |
| Copper | mg | 1.6 | 0.40 | 1.6 | 0.40 |
| Zinc | mg | 15 | 3.7 | 15 | 3.7 |
| Manganese | mg | 1.3 | 0.32 | 1.3 | 0.32 |
| Iodine | mcg | 222 | 55 | 222 | 55 |
| Molybdenum | mcg | 62 | 15 | 62 | 15 |
| Selenium | mcg | 71 | 18 | 71 | 18 |
| Chromium | mcg | 37 | 9.2 | 37 | 9.2 |
| AMINO ACIDS | | | | | |
| L-Alanine | g | 2.56 | 0.64 | 2.56 | 0.64 |
| L-Arginine | g | 4.14 | 1.04 | 4.14 | 1.04 |
| L-Aspartic Acid | g | 6.56 | 1.64 | 6.56 | 1.64 |
| L-Cystine | g | 1.67 | 0.42 | 1.67 | 0.42 |
| L-Glutamine | g | 5.10 | 1.28 | 5.10 | 1.28 |
| Glycine | g | 6.53 | 1.63 | 6.53 | 1.63 |
| L-Histidine | g | 2.55 | 0.64 | 2.55 | 0.64 |
| L-Isoleucine | g | 4.47 | 1.12 | 4.47 | 1.12 |
| L-Leucine | g | 7.02 | 1.76 | 7.02 | 1.76 |
| L-Lysine | g | 4.64 | 1.16 | 4.64 | 1.16 |
| L-Methionine | g | 1.24 | 0.31 | 1.24 | 0.31 |
| L-Phenylalanine* | g | 0 | 0 | 0 | 0 |
| L-Proline | g | 4.68 | 1.17 | 4.68 | 1.17 |
| L-Serine | g | 2.91 | 0.73 | 2.91 | 0.73 |
| L-Threonine | g | 4.54 | 1.13 | 4.54 | 1.13 |
| L-Tryptophan | g | 1.41 | 0.35 | 1.41 | 0.35 |
| L-Tyrosine | g | 6.59 | 1.65 | 6.59 | 1.65 |
| L-Valine | g | 5.17 | 1.29 | 5.17 | 1.29 |
| L-Carnitine | mg | 56 | 14 | 56 | 14 |
| Taurine | mg | 117 | 29 | 117 | 29 |

*No added phenylalanine.

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A powdered phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, docosahexaenoic acid (DHA), vitamins and minerals
- 1 packet provides 20 g protein equivalent
- Designed to be mixed with water or other permitted beverages to prepare a low volume drink
- Available in Unflavored, Orange, Lemon, Tropical, and Raspberry flavors



Osmolality

34 g (1 packet) + 90 mL (3 fl oz) water = 2155 mOsm/kg

See [page 95](#) for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|-------------------|--------------------|---------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Unflavored | 30 x 34 g packets | 12539-0024-91 | B4162 & B4157 | 812539024910 |
| Tropical | | 12539-0024-94 | | 812539024941 |
| Orange | | 12539-0024-93 | | 812539024934 |
| Lemon | | 12539-0024-92 | | 812539024927 |
| Raspberry | | 12539-0025-22 | | 812539025221 |

PKU express plus20 (Unflavored) – Ingredients: L-Lysine L-Aspartate, Maltodextrin, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, L-Valine, L-Glutamine, L-Proline, L-Threonine, L-Isoleucine, Calcium Phosphate, Corn Starch, L-Serine, Corn Syrup, L-Alanine, L-Histidine, Magnesium Phosphate, Refined Tuna Oil (Fish)*, Potassium Citrate, Choline Bitartrate, L-Cystine, L-Tryptophan, L-Methionine, L-Arginine, Modified Corn Starch, Sodium Chloride, Sodium Citrate, Xanthan Gum, Sodium Ascorbate, Soy Lecithin, Taurine, Zinc Gluconate, L-Carnitine L-Tartrate, Potassium Phosphate, Ferrous Sulfate, DL-Alpha Tocopheryl Acetate, Mono- And Diglycerides, Ascorbic Acid, Sodium Selenite, Copper Gluconate, Vitamin D3, Manganese Gluconate, Nicotinamide, Vitamin A Acetate, Calcium Pantothenate, Chromium Chloride, Vitamin B12, Biotin, Tocopherols (Preservative), Pyridoxine Hydrochloride, Potassium Iodide, Folic Acid, Thiamine Hydrochloride, Riboflavin, Sodium Molybdate, Vitamin K1.

Contains: Fish (tuna) and Soy. **May contain:** Milk.

Ingredient lists for all flavored options are available at VitaFloUSA.com

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

| PKU express plus20 Nutrition Information | | | | | |
|--|---------|------------|---------------------|-----------|---------------------|
| | Units | Unflavored | | Flavored | |
| | | Per 100 g | Per 34 g (1 packet) | Per 100 g | Per 34 g (1 packet) |
| Calories | kcal | 316 | 107 | 306 | 104 |
| Protein Equivalent | g | 60 | 20 | 60 | 20 |
| Total Carbohydrate | g | 14 | 4.8 | 11.5 | 3.9 |
| Sugars | g | 1.2 | 0.4 | 2.9 | 1.0 |
| Total Fat | g | 2.2 | 0.8 | 2.2 | 0.8 |
| Saturated Fat | g | 0.7 | 0.2 | 0.7 | 0.2 |
| Docosahexaenoic Acid (DHA) | mg | 400 | 136 | 400 | 136 |
| VITAMINS | | | | | |
| Vitamin A | mcg RE | 690 | 235 | 690 | 235 |
| Vitamin D | mcg | 24 | 8.2 | 24 | 8.2 |
| Vitamin E | mg α TE | 12 | 4.1 | 12 | 4.1 |
| Vitamin C | mg | 97 | 33 | 97 | 33 |
| Vitamin K | mcg | 62 | 21 | 62 | 21 |
| Thiamin | mg | 1.7 | 0.58 | 1.7 | 0.58 |
| Riboflavin | mg | 2.0 | 0.68 | 2.0 | 0.68 |
| Niacin | mg | 8.8 | 3.0 | 8.8 | 3.0 |
| Vitamin B6 | mg | 2.4 | 0.82 | 2.4 | 0.82 |
| Folic Acid | mcg | 266 | 90 | 266 | 90 |
| Vitamin B12 | mcg | 4.2 | 1.4 | 4.2 | 1.4 |
| Pantothenic Acid | mg | 5.0 | 1.7 | 5.0 | 1.7 |
| Biotin | mcg | 33 | 11 | 33 | 11 |
| Choline | mg | 533 | 181 | 533 | 181 |
| MINERALS | | | | | |
| Sodium | mg | 373 | 127 | 373 | 127 |
| Potassium | mg | 648 | 220 | 648 | 220 |
| Chloride | mg | 373 | 127 | 373 | 127 |
| Calcium | mg | 1060 | 360 | 1060 | 360 |
| Phosphorus | mg | 951 | 323 | 951 | 323 |
| Magnesium | mg | 293 | 100 | 293 | 100 |
| Iron | mg | 19 | 6.5 | 19 | 6.5 |
| Copper | mg | 1.6 | 0.54 | 1.6 | 0.54 |
| Zinc | mg | 15 | 5.1 | 15 | 5.1 |
| Manganese | mg | 1.3 | 0.44 | 1.3 | 0.44 |
| Iodine | mcg | 222 | 75 | 222 | 75 |
| Molybdenum | mcg | 62 | 21 | 62 | 21 |
| Selenium | mcg | 71 | 24 | 71 | 24 |
| Chromium | mcg | 37 | 13 | 37 | 13 |
| AMINO ACIDS | | | | | |
| L-Alanine | g | 2.56 | 0.87 | 2.56 | 0.87 |
| L-Arginine | g | 4.14 | 1.41 | 4.14 | 1.41 |
| L-Aspartic Acid | g | 6.56 | 2.23 | 6.56 | 2.23 |
| L-Cystine | g | 1.67 | 0.57 | 1.67 | 0.57 |
| L-Glutamine | g | 5.10 | 1.73 | 5.10 | 1.73 |
| Glycine | g | 6.53 | 2.22 | 6.53 | 2.22 |
| L-Histidine | g | 2.55 | 0.87 | 2.55 | 0.87 |
| L-Isoleucine | g | 4.47 | 1.52 | 4.47 | 1.52 |
| L-Leucine | g | 7.02 | 2.39 | 7.02 | 2.39 |
| L-Lysine | g | 4.64 | 1.58 | 4.64 | 1.58 |
| L-Methionine | g | 1.24 | 0.42 | 1.24 | 0.42 |
| L-Phenylalanine* | g | 0 | 0 | 0 | 0 |
| L-Proline | g | 4.68 | 1.59 | 4.68 | 1.59 |
| L-Serine | g | 2.91 | 0.99 | 2.91 | 0.99 |
| L-Threonine | g | 4.54 | 1.54 | 4.54 | 1.54 |
| L-Tryptophan | g | 1.41 | 0.48 | 1.41 | 0.48 |
| L-Tyrosine | g | 6.59 | 2.24 | 6.59 | 2.24 |
| L-Valine | g | 5.17 | 1.76 | 5.17 | 1.76 |
| L-Carnitine | mg | 56 | 19 | 56 | 19 |
| Taurine | mg | 117 | 40 | 117 | 40 |

*No added phenylalanine.

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A ready-to-drink phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 10 g protein equivalent
- Available in Red flavor

Osmolality

1550 mOsm/kg

See [page 96](#) for directions for use

Ordering/Reimbursement Information

| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
|--------|--------------------|--------------------|---------------|--------------|
| Red | 30 x 87 mL pouches | 12539-0020-36 | B4162 & B4157 | 812539020363 |

PKU cooler10 (Red) – Ingredients: Water, Sugar, and 2% or less of: L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, Malic Acid, L-Valine, L-Proline, L-Threonine, L-Isoleucine, Modified Corn Starch, Natural and Artificial Flavor, Soy Lecithin, Calcium Phosphate, L-Serine, L-Alanine, L-Histidine, Magnesium Phosphate, Refined Tuna Oil (Fish), L-Cystine, Choline Bitartrate, Potassium Citrate, L-Tryptophan, L-Methionine, L-Arginine, Salt, Maltodextrin, Carmine (Color), Xanthan Gum, Acesulfame Potassium, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Palmitate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Sodium Molybdate, Chromium Chloride.

Contains: Fish (tuna) and Soy.

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

PKU cooler10 Nutrition Information

| | Units | per 100 mL | per 87 mL (1 pouch) |
|----------------------------|---------|------------|---------------------|
| Calories | kcal | 78 | 68 |
| Protein equivalent | g | 11.5 | 10 |
| Total Carbohydrate | g | 5.1 | 4.4 |
| Sugars | g | 3.4 | 3.0 |
| Total Fat | g | 0.9 | 0.8 |
| Saturated Fat | g | 0.2 | 0.2 |
| Docosahexaenoic Acid (DHA) | mg | 77 | 67 |
| VITAMINS | | | |
| Vitamin A | µg RE | 150 | 131 |
| Vitamin D | µg | 5.8 | 5.0 |
| Vitamin E | mg α TE | 3.0 | 2.6 |
| Vitamin C | mg | 21 | 18 |
| Vitamin K | µg | 14 | 12 |
| Thiamin | mg | 0.40 | 0.35 |
| Riboflavin | mg | 0.44 | 0.38 |
| Niacin | mg | 2 | 1.7 |
| Vitamin B6 | mg | 0.44 | 0.38 |
| Folic acid | µg | 58 | 50 |
| Vitamin B12 | µg | 0.9 | 0.78 |
| Biotin | µg | 7.5 | 6.5 |
| Pantothenic acid | mg | 1.1 | 0.96 |
| Choline | mg | 115 | 100 |
| MINERALS | | | |
| Sodium | mg | 70 | 61 |
| Potassium | mg | 140 | 122 |
| Chloride | mg | 80 | 70 |
| Calcium | mg | 230 | 200 |
| Phosphorus | mg | 205 | 178 |
| Magnesium | mg | 63 | 55 |
| Iron | mg | 4.2 | 3.7 |
| Copper | mg | 0.42 | 0.37 |
| Zinc | mg | 3.2 | 2.8 |
| Manganese | mg | 0.29 | 0.25 |
| Iodine | µg | 49 | 43 |
| Molybdenum | µg | 13 | 11 |
| Selenium | µg | 15 | 13 |
| Chromium | µg | 8 | 7 |
| AMINO ACIDS | | | |
| L-Alanine | g | 0.53 | 0.46 |
| L-Arginine | g | 0.86 | 0.75 |
| L-Aspartic acid | g | 1.36 | 1.18 |
| L-Cystine | g | 0.35 | 0.30 |
| L-Glutamine | g | 0 | 0 |
| Glycine | g | 1.35 | 1.17 |
| L-Histidine | g | 0.53 | 0.46 |
| L-Isoleucine | g | 0.93 | 0.81 |
| L-Leucine | g | 1.46 | 1.27 |
| L-Lysine | g | 0.96 | 0.84 |
| L-Methionine | g | 0.26 | 0.23 |
| L-Phenylalanine* | g | 0 | 0 |
| L-Proline | g | 0.97 | 0.84 |
| L-Serine | g | 0.60 | 0.52 |
| L-Threonine | g | 0.93 | 0.81 |
| L-Tryptophan | g | 0.29 | 0.25 |
| L-Tyrosine | g | 1.37 | 1.19 |
| L-Valine | g | 1.07 | 0.93 |
| L-Carnitine | mg | 13 | 11 |
| Taurine | mg | 25 | 22 |

*No added phenylalanine.



A ready-to-drink phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 15 g protein equivalent
- Available in Orange, Purple, and Red flavors

Osmolality

1550 mOsm/kg

See page 96 for directions for use

Ordering/Reimbursement Information

| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
|--------|---------------------|--------------------|---------------|--------------|
| Orange | 30 x 130 mL pouches | 12539-0020-40 | B4162 & B4157 | 812539020400 |
| Purple | | 12539-0020-43 | | 812539020431 |
| Red | | 12539-0020-37 | | 812539020370 |

PKU cooler15 (Red) — Ingredients: Water, Sugar, and 2% or less of: L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, Malic Acid, L-Valine, L-Proline, L-Threonine, L-Isoleucine, Modified Corn Starch, Natural and Artificial Flavor, Soy Lecithin, Calcium Phosphate, L-Serine, L-Alanine, L-Histidine, Magnesium Phosphate, Refined Tuna Oil (Fish), L-Cystine, Choline Bitartrate, Potassium Citrate, L-Tryptophan, L-Methionine, L-Arginine, Salt, Maltodextrin, Carmine (Color), Xanthan Gum, Acesulfame Potassium, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Palmitate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Sodium Molybdate, Chromium Chloride.

Contains: Fish (tuna) and Soy.

Ingredient lists for all flavored options available at VitaftloUSA.com

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

PKU cooler15 Nutrition Information

| | Units | per 100 mL | per 150 mL (1 pouch) |
|----------------------------|---------|------------|----------------------|
| Calories | kcal | 78 | 101 |
| Protein equivalent | g | 11.5 | 15 |
| Total Carbohydrate | g | 5.1 | 6.6 |
| Sugars | g | 3.4 | 4.4 |
| Total Fat | g | 0.9 | 1.2 |
| Saturated Fat | g | 0.2 | 0.3 |
| Docosahexaenoic Acid (DHA) | mg | 77 | 100 |
| VITAMINS | | | |
| Vitamin A | µg RE | 150 | 195 |
| Vitamin D | µg | 5.8 | 7.5 |
| Vitamin E | mg α TE | 3.0 | 3.9 |
| Vitamin C | mg | 21 | 27 |
| Vitamin K | µg | 14 | 18 |
| Thiamin | mg | 0.40 | 0.52 |
| Riboflavin | mg | 0.44 | 0.57 |
| Niacin | mg | 2 | 2.6 |
| Vitamin B6 | mg | 0.44 | 0.57 |
| Folic acid | µg | 58 | 75 |
| Vitamin B12 | µg | 0.9 | 1.2 |
| Biotin | µg | 7.5 | 9.8 |
| Pantothenic acid | mg | 1.1 | 1.4 |
| Choline | mg | 115 | 150 |
| MINERALS | | | |
| Sodium | mg | 70 | 91 |
| Potassium | mg | 140 | 182 |
| Chloride | mg | 80 | 104 |
| Calcium | mg | 230 | 299 |
| Phosphorus | mg | 205 | 267 |
| Magnesium | mg | 63 | 82 |
| Iron | mg | 4.2 | 5.5 |
| Copper | mg | 0.42 | 0.55 |
| Zinc | mg | 3.2 | 4.2 |
| Manganese | mg | 0.29 | 0.38 |
| Iodine | µg | 49 | 64 |
| Molybdenum | µg | 13 | 17 |
| Selenium | µg | 15 | 20 |
| Chromium | µg | 8 | 10 |
| AMINO ACIDS | | | |
| L-Alanine | g | 0.53 | 0.69 |
| L-Arginine | g | 0.86 | 1.12 |
| L-Aspartic acid | g | 1.36 | 1.77 |
| L-Cystine | g | 0.35 | 0.46 |
| L-Glutamine | g | 0 | 0 |
| Glycine | g | 1.35 | 1.76 |
| L-Histidine | g | 0.53 | 0.69 |
| L-Isoleucine | g | 0.93 | 1.21 |
| L-Leucine | g | 1.46 | 1.90 |
| L-Lysine | g | 0.96 | 1.25 |
| L-Methionine | g | 0.26 | 0.34 |
| L-Phenylalanine* | g | 0 | 0 |
| L-Proline | g | 0.97 | 1.26 |
| L-Serine | g | 0.60 | 0.78 |
| L-Threonine | g | 0.93 | 1.21 |
| L-Tryptophan | g | 0.29 | 0.38 |
| L-Tyrosine | g | 1.37 | 1.78 |
| L-Valine | g | 1.07 | 1.39 |
| L-Carnitine | mg | 13 | 17 |
| Taurine | mg | 25 | 33 |

*No added phenylalanine.



A ready-to-drink phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 20 g protein equivalent
- Available in Orange, Purple, and Red flavors

Osmolality

1550 mOsm/kg

See page 96 for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|---------------------|--------------------|---------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Orange | 30 x 174 mL pouches | 12539-0020-41 | B4162 & B4157 | 812539020417 |
| Purple | | 12539-0020-44 | | 812539020448 |
| Red | | 12539-0020-38 | | 812539020387 |

PKU cooler20 (Red) — Ingredients: Water, Sugar, and 2% or less of: L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, Malic Acid, L-Valine, L-Proline, L-Threonine, L-Isoleucine, Modified Corn Starch, Natural and Artificial Flavor, Soy Lecithin, Calcium Phosphate, L-Serine, L-Alanine, L-Histidine, Magnesium Phosphate, Refined Tuna Oil (Fish), L-Cystine, Choline Bitartrate, Potassium Citrate, L-Tryptophan, L-Methionine, L-Arginine, Salt, Maltodextrin, Carmine (Color), Xanthan Gum, Acesulfame Potassium, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Palmitate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Sodium Molybdate, Chromium Chloride.

Contains: Fish (tuna) and Soy.

Ingredient lists for all flavored options are available at VitaflorUSA.com

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

| PKU cooler20 Nutrition Information | | | |
|------------------------------------|---------|------------|----------------------|
| | Units | per 100 mL | per 174 mL (1 pouch) |
| Calories | kcal | 78 | 135 |
| Protein equivalent | g | 11.5 | 20 |
| Total Carbohydrate | g | 5.1 | 8.9 |
| Sugars | g | 3.4 | 5.9 |
| Total Fat | g | 0.9 | 1.6 |
| Saturated Fat | g | 0.2 | 0.3 |
| Docosahexaenoic Acid (DHA) | mg | 77 | 134 |
| VITAMINS | | | |
| Vitamin A | µg RE | 150 | 261 |
| Vitamin D | µg | 5.8 | 10 |
| Vitamin E | mg α TE | 3.0 | 5.2 |
| Vitamin C | mg | 21 | 37 |
| Vitamin K | µg | 14 | 24 |
| Thiamin | mg | 0.40 | 0.70 |
| Riboflavin | mg | 0.44 | 0.77 |
| Niacin | mg | 2 | 3.5 |
| Vitamin B6 | mg | 0.44 | 0.77 |
| Folic acid | µg | 58 | 101 |
| Vitamin B12 | µg | 0.9 | 1.6 |
| Biotin | µg | 7.5 | 13 |
| Pantothenic acid | mg | 1.1 | 1.9 |
| Choline | mg | 115 | 200 |
| MINERALS | | | |
| Sodium | mg | 70 | 122 |
| Potassium | mg | 140 | 244 |
| Chloride | mg | 80 | 139 |
| Calcium | mg | 230 | 400 |
| Phosphorus | mg | 205 | 357 |
| Magnesium | mg | 63 | 110 |
| Iron | mg | 4.2 | 7.3 |
| Copper | mg | 0.42 | 0.73 |
| Zinc | mg | 3.2 | 5.6 |
| Manganese | mg | 0.29 | 0.50 |
| Iodine | µg | 49 | 85 |
| Molybdenum | µg | 13 | 23 |
| Selenium | µg | 15 | 26 |
| Chromium | µg | 8 | 14 |
| AMINO ACIDS | | | |
| L-Alanine | g | 0.53 | 0.92 |
| L-Arginine | g | 0.86 | 1.50 |
| L-Aspartic acid | g | 1.36 | 2.37 |
| L-Cystine | g | 0.35 | 0.61 |
| L-Glutamine | g | 0 | 0 |
| Glycine | g | 1.35 | 2.35 |
| L-Histidine | g | 0.53 | 0.92 |
| L-Isoleucine | g | 0.93 | 1.62 |
| L-Leucine | g | 1.46 | 2.54 |
| L-Lysine | g | 0.96 | 1.67 |
| L-Methionine | g | 0.26 | 0.45 |
| L-Phenylalanine* | g | 0 | 0 |
| L-Proline | g | 0.97 | 1.69 |
| L-Serine | g | 0.60 | 1.04 |
| L-Threonine | g | 0.93 | 1.62 |
| L-Tryptophan | g | 0.29 | 0.50 |
| L-Tyrosine | g | 1.37 | 2.38 |
| L-Valine | g | 1.07 | 1.86 |
| L-Carnitine | mg | 13 | 23 |
| Taurine | mg | 25 | 44 |

*No added phenylalanine.



A ready-to-drink phenylalanine-free medical food for use in the dietary management of Phenylketonuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 100 kcal and 0.3 g sugar per pouch
- 1 pouch provides 20 g protein equivalent
- Available in Gold, Green, and Yellow flavors
- Specifically designed with teens and adults in mind

Osmolality

1400 mOsm/kg

See [page 97](#) for directions for use

Ordering/Reimbursement Information

| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
|--------|---------------------|--------------------|---------------|--------------|
| Gold | 30 x 174 mL pouches | 12539-0021-69 | B4162 & B4157 | 812539021698 |
| Green | | 12539-0021-70 | | 812539021704 |
| Yellow | | 12539-0021-71 | | 812539021711 |

PKU air (Yellow) – Ingredients: Water, and 2% or less of: L-lysine L-aspartate, Malic acid, L-leucine, L-tyrosine, Glycine, L-arginine L-aspartate, L-valine, L-proline, L-threonine, L-isoleucine, Modified corn starch, Calcium phosphate, L-serine, Soy lecithin, L-alanine, L-histidine, Magnesium phosphate, Refined tuna oil (fish), L-cystine, Choline bitartrate, Potassium citrate, L-tryptophan, Natural and artificial flavor, L-methionine, L-arginine, L-arginine, Salt, Maltodextrin, Xanthan gum, Ascorbic acid, Beta-carotene (color), Acesulfame potassium, Sodium ascorbate, Zinc gluconate, Sucralose, Taurine, Potassium sorbate (preservative), L-carnitine L-tartrate, Dipotassium phosphate, Sodium benzoate (preservative), Ferrous sulfate, DL-alpha tocopheryl acetate, Copper gluconate, Vitamin D3, Manganese gluconate, Vitamin A palmitate, Niacinamide, Calcium pantothenate, Vitamin B12, Biotin, Pyridoxine hydrochloride, Potassium iodide, Thiamine hydrochloride, Riboflavin, Vitamin K1, Folic acid, Sodium selenite, Chromium chloride, Sodium molybdate.

Contains: Fish (tuna) and Soy.

Ingredient lists for all flavored options are available at VitaFloUSA.com

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

PKU air20 Nutrition Information

| | Units | per 100 mL | per 174 mL (1 pouch) |
|----------------------------|---------|------------|----------------------|
| Calories | kcal | 62 | 107 |
| Protein equivalent | g | 11.5 | 20 |
| Total Carbohydrate | g | 1.5 | 2.6 |
| Sugars | g | 0.2 | 0.3 |
| Total Fat | g | 0.6 | 1.0 |
| Saturated Fat | g | 0.2 | 0.3 |
| Docosahexaenoic Acid (DHA) | mg | 77 | 134 |
| VITAMINS | | | |
| Vitamin A | µg RE | 133 | 231 |
| Vitamin D | µg | 5.1 | 9 |
| Vitamin E | mg µ TE | 2.7 | 4.7 |
| Vitamin C | mg | 19 | 33 |
| Vitamin K | µg | 12 | 21 |
| Thiamin | mg | 0.35 | 0.61 |
| Riboflavin | mg | 0.39 | 0.68 |
| Niacin | mg | 1.8 | 3.1 |
| Vitamin B6 | mg | 0.44 | 0.77 |
| Folic Acid | µg | 51 | 89 |
| Vitamin B12 | µg | 0.82 | 1.4 |
| Biotin | µg | 6.7 | 12 |
| Pantothenic acid | mg | 1.0 | 1.7 |
| Choline | mg | 102 | 178 |
| MINERALS | | | |
| Sodium | mg | 70 | 122 |
| Potassium | mg | 124 | 216 |
| Chloride | mg | 71 | 124 |
| Calcium | mg | 210 | 365 |
| Phosphorus | mg | 190 | 331 |
| Magnesium | mg | 60 | 104 |
| Iron | mg | 3.7 | 6.4 |
| Copper | mg | 0.37 | 0.64 |
| Zinc | mg | 2.8 | 4.9 |
| Manganese | mg | 0.25 | 0.44 |
| Iodine | µg | 45 | 78 |
| Molybdenum | µg | 11 | 19 |
| Selenium | µg | 13 | 23 |
| Chromium | µg | 7.1 | 12 |
| AMINO ACIDS | | | |
| L-Alanine | g | 0.53 | 0.92 |
| L-Arginine | g | 0.86 | 1.50 |
| L-Aspartic Acid | g | 1.36 | 2.37 |
| L-Cystine | g | 0.35 | 0.61 |
| L-Glutamine | g | 0 | 0 |
| Glycine | g | 1.35 | 2.35 |
| L-Histidine | g | 0.53 | 0.92 |
| L-Isoleucine | g | 0.93 | 2 |
| L-Leucine | g | 1.46 | 3 |
| L-Lysine | g | 0.96 | 1.67 |
| L-Methionine | g | 0.26 | 0.45 |
| L-Phenylalanine* | g | - | - |
| L-Proline | g | 0.97 | 1.69 |
| L-Serine | g | 0.60 | 1.04 |
| L-Threonine | g | 0.93 | 1.62 |
| L-Tryptophan | g | 0.29 | 0.50 |
| L-Tyrosine | g | 1.37 | 2.38 |
| L-Valine | g | 1.07 | 1.86 |
| L-Carnitine | mg | 13 | 23 |
| Taurine | mg | 25 | 44 |

*No added phenylalanine.



A powdered isoleucine-, leucine-, and valine-free medical food for use in the dietary management of Maple Syrup Urine Disease.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, docosahexaenoic acid (DHA), vitamins and minerals
- 1 packet provides 15 g protein equivalent
- Designed to be mixed with water or other permitted beverages to prepare a low volume drink
- Available in Unflavored

Osmolality

25 g (1 packet) + 90 mL (3 fl oz) water = 1705 mOsm/kg

See page 95 for directions for use



| Ordering/Reimbursement Information | | | | |
|------------------------------------|-------------------|--------------------|---------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Unflavored | 30 x 25 g packets | 12539-0024-99 | B4157 & B4162 | 812539024996 |

MSUD express plus15 (Unflavored) — Ingredients: L-Lysine L-Aspartate, L-Arginine L-Aspartate, L-Glutamine, L-Alanine, L-Proline, Glycine, Maltodextrin, L-Serine, L-Tyrosine, L-Phenylalanine, L-Threonine, Calcium Phosphate, Corn Starch, Corn Syrup, L-Histidine, Magnesium Phosphate, L-Cystine, L-Tryptophan, Refined Tuna Oil (Fish)*, Potassium Citrate, Choline Bitartrate, L-Arginine, L-Methionine, Modified Corn Starch, Sodium Chloride, Sodium Citrate, Xanthan Gum, Sodium Ascorbate, Soy Lecithin, Taurine, Zinc Gluconate, L-Carnitine L-Tartrate, Potassium Phosphate, Ferrous Sulfate, DL-Alpha Tocopheryl Acetate, Mono- and Diglycerides, Ascorbic Acid, Sodium Selenite, Copper Gluconate, Vitamin D3, Manganese Gluconate, Niacinamide, Vitamin A Acetate, Calcium Pantothenate, Chromium Chloride, Vitamin B12, Biotin, Tocopherols (Preservative), Pyridoxine Hydrochloride, Potassium Iodide, Folic Acid, Thiamine Hydrochloride, Riboflavin, Sodium Molybdate, Vitamin K1.

Contains: Fish (tuna) and Soy. **May contain:** Milk.

*A source of docosahexaenoic acid (DHA).

| MSUD express plus15 Nutrition Information | | | |
|---|---------|-----------|---------------------|
| | Units | Per 100 g | Per 25 g (1 packet) |
| Calories | kcal | 316 | 79 |
| Protein Equivalent | g | 60 | 15 |
| Total Carbohydrate | g | 14 | 3.5 |
| Sugars | g | 1.2 | 0.3 |
| Total Fat | g | 2.2 | 0.6 |
| Saturated Fat | g | 0.7 | 0.2 |
| Docosahexaenoic Acid (DHA) | mg | 400 | 100 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 690 | 172 |
| Vitamin D | mcg | 24 | 6.0 |
| Vitamin E | mg α TE | 12 | 3.0 |
| Vitamin C | mg | 97 | 24 |
| Vitamin K | mcg | 62 | 15 |
| Thiamin | mg | 1.7 | 0.42 |
| Riboflavin | mg | 2.0 | 0.50 |
| Niacin | mg | 8.8 | 2.2 |
| Vitamin B6 | mg | 2.4 | 0.60 |
| Folic Acid | mcg | 266 | 66 |
| Vitamin B12 | mcg | 4.2 | 1.0 |
| Pantothenic Acid | mg | 5.0 | 1.2 |
| Biotin | mcg | 33 | 8.2 |
| Choline | mg | 533 | 133 |
| MINERALS | | | |
| Sodium | mg | 373 | 93 |
| Potassium | mg | 648 | 162 |
| Chloride | mg | 373 | 93 |
| Calcium | mg | 1060 | 265 |
| Phosphorus | mg | 951 | 238 |
| Magnesium | mg | 293 | 73 |
| Iron | mg | 19 | 4.7 |
| Copper | mg | 1.6 | 0.40 |
| Zinc | mg | 15 | 3.7 |
| Manganese | mg | 1.3 | 0.32 |
| Iodine | mcg | 222 | 55 |
| Molybdenum | mcg | 62 | 15 |
| Selenium | mcg | 71 | 18 |
| Chromium | mcg | 37 | 9.2 |
| AMINO ACIDS | | | |
| L-Alanine | g | 7.58 | 1.90 |
| L-Arginine | g | 7.19 | 1.80 |
| L-Aspartic Acid | g | 9.11 | 2.28 |
| L-Cystine | g | 2.15 | 0.54 |
| L-Glutamine | g | 7.80 | 1.95 |
| Glycine | g | 6.03 | 1.51 |
| L-Histidine | g | 2.59 | 0.65 |
| L-Isoleucine* | g | 0 | 0 |
| L-Leucine* | g | 0 | 0 |
| L-Lysine | g | 5.42 | 1.36 |
| L-Methionine | g | 1.55 | 0.39 |
| L-Phenylalanine | g | 4.05 | 1.01 |
| L-Proline | g | 6.37 | 1.59 |
| L-Serine | g | 4.31 | 1.08 |
| L-Threonine | g | 3.88 | 0.97 |
| L-Tryptophan | g | 2.15 | 0.54 |
| L-Tyrosine | g | 4.31 | 1.08 |
| L-Valine* | g | 0 | 0 |
| L-Carnitine | mg | 56 | 14 |
| Taurine | mg | 117 | 29 |

*No added isoleucine, leucine, and valine.



A powdered isoleucine-, leucine-, and valine-free medical food for use in the dietary management of Maple Syrup Urine Disease.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, docosahexaenoic acid (DHA), vitamins and minerals
- 1 packet provides 20 g protein equivalent
- Designed to be mixed with water or other permitted beverages to prepare a low volume drink
- Available in Unflavored

Osmolality

34 g (1 packet) + 90 mL (3 fl oz) water = 2155 mOsm/kg

See page 95 for directions for use



| Ordering/Reimbursement Information | | | | |
|------------------------------------|-------------------|--------------------|---------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Unflavored | 30 x 34 g packets | 12539-0025-00 | B4157 & B4162 | 812539025009 |

MSUD express plus20 (Unflavored) — Ingredients: L-Lysine L-Aspartate, L-Arginine L-Aspartate, L-Glutamine, L-Alanine, L-Proline, Glycine, Maltodextrin, L-Serine, L-Tyrosine, L-Phenylalanine, L-Threonine, Calcium Phosphate, Corn Starch, Corn Syrup, L-Histidine, Magnesium Phosphate, L-Cystine, L-Tryptophan, Refined Tuna Oil (Fish)*, Potassium Citrate, Choline Bitartrate, L-Arginine, L-Methionine, Modified Corn Starch, Sodium Chloride, Sodium Citrate, Xanthan Gum, Sodium Ascorbate, Soy Lecithin, Taurine, Zinc Gluconate, L-Carnitine L-Tartrate, Potassium Phosphate, Ferrous Sulfate, DL-Alpha Tocopheryl Acetate, Mono- and Diglycerides, Ascorbic Acid, Sodium Selenite, Copper Gluconate, Vitamin D3, Manganese Gluconate, Niacinamide, Vitamin A Acetate, Calcium Pantothenate, Chromium Chloride, Vitamin B12, Biotin, Tocopherols (Preservative), Pyridoxine Hydrochloride, Potassium Iodide, Folic Acid, Thiamine Hydrochloride, Riboflavin, Sodium Molybdate, Vitamin K1.

Contains: Fish (tuna) and Soy. **May contain:** Milk.

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

| MSUD express plus20 Nutrition Information | | | |
|---|---------|-----------|---------------------|
| | Units | Per 100 g | Per 34 g (1 packet) |
| Calories | kcal | 316 | 107 |
| Protein Equivalent | g | 60 | 20 |
| Total Carbohydrate | g | 14 | 4.8 |
| Sugars | g | 1.2 | 0.4 |
| Total Fat | g | 2.2 | 0.8 |
| Saturated Fat | g | 0.7 | 0.2 |
| Docosahexaenoic Acid (DHA) | mg | 400 | 136 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 690 | 235 |
| Vitamin D | mcg | 24 | 8.2 |
| Vitamin E | mg α TE | 12 | 4.1 |
| Vitamin C | mg | 97 | 33 |
| Vitamin K | mcg | 62 | 21 |
| Thiamin | mg | 1.7 | 0.58 |
| Riboflavin | mg | 2.0 | 0.68 |
| Niacin | mg | 8.8 | 3.0 |
| Vitamin B6 | mg | 2.4 | 0.82 |
| Folic Acid | mcg | 266 | 90 |
| Vitamin B12 | mcg | 4.2 | 1.4 |
| Pantothenic Acid | mg | 5.0 | 1.7 |
| Biotin | mcg | 33 | 11 |
| Choline | mg | 533 | 181 |
| MINERALS | | | |
| Sodium | mg | 373 | 127 |
| Potassium | mg | 648 | 220 |
| Chloride | mg | 373 | 127 |
| Calcium | mg | 1060 | 360 |
| Phosphorus | mg | 951 | 323 |
| Magnesium | mg | 293 | 100 |
| Iron | mg | 19 | 6.5 |
| Copper | mg | 1.6 | 0.54 |
| Zinc | mg | 15 | 5.1 |
| Manganese | mg | 13 | 0.44 |
| Iodine | mcg | 222 | 75 |
| Molybdenum | mcg | 62 | 21 |
| Selenium | mcg | 71 | 24 |
| Chromium | mcg | 37 | 13 |
| AMINO ACIDS | | | |
| L-Alanine | g | 7.58 | 2.58 |
| L-Arginine | g | 7.19 | 2.44 |
| L-Aspartic Acid | g | 9.11 | 3.10 |
| L-Cystine | g | 2.15 | 0.73 |
| L-Glutamine | g | 7.80 | 2.65 |
| Glycine | g | 6.03 | 2.05 |
| L-Histidine | g | 2.59 | 0.88 |
| L-Isoleucine* | g | 0 | 0 |
| L-Leucine* | g | 0 | 0 |
| L-Lysine | g | 5.42 | 1.84 |
| L-Methionine | g | 1.55 | 0.53 |
| L-Phenylalanine | g | 4.05 | 1.38 |
| L-Proline | g | 6.37 | 2.17 |
| L-Serine | g | 4.31 | 1.47 |
| L-Threonine | g | 3.88 | 1.32 |
| L-Tryptophan | g | 2.15 | 0.73 |
| L-Tyrosine | g | 4.31 | 1.47 |
| L-Valine* | g | 0 | 0 |
| L-Carnitine | mg | 56 | 19 |
| Taurine | mg | 117 | 40 |

*No added isoleucine, leucine, and valine.



cooler¹⁵



A ready-to-drink isoleucine-, leucine-, and valine-free medical food for use in the dietary management of Maple Syrup Urine Disease.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 15 g protein equivalent
- Available in Orange and Red flavors

Osmolality

1550 mOsm/kg

See page 96 for directions for use

Ordering/Reimbursement Information

| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
|--------|---------------------|--------------------|---------------|--------------|
| Orange | 30 x 130 mL pouches | 12539-0020-55 | B4162 & B4157 | 812539020578 |
| Red | | 12539-0020-57 | | 812539020554 |

MSUD cooler15 (Red) – Ingredients: Water, Sugar, L-Lysine L-Aspartate, L-Arginine L-Aspartate, L-Alanine, L-Proline, Malic Acid, Glycine, Modified Corn Starch, L-Serine, L-Tyrosine, Natural and Artificial Flavor, L-Phenylalanine, L-Threonine, Soy Lecithin, Calcium Phosphate, L-Histidine, Glucose Syrup, Magnesium Phosphate, L-Cystine, L-Tryptophan, Refined Tuna Oil (Fish)*, L-Arginine, Choline Bitartrate, Potassium Citrate, L-Methionine, Salt, Maltodextrin, Carmine (Color), Ascorbic Acid, Xanthan Gum, Acesulfame Potassium, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Acetate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Sodium Molybdate, Chromium Chloride.

Contains: Fish (tuna) and Soy.

Ingredient lists for all flavored options are available at VitaflouUSA.com

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

MSUD cooler15 Nutrition Information

| | Units | Per 100 mL | 130 mL (1 pouch) |
|----------------------------|---------|------------|------------------|
| Calories | kcal | 75 | 97 |
| Protein Equivalent | g | 11.5 | 15 |
| Total Carbohydrate | g | 5.1 | 6.6 |
| Sugars | g | 3.4 | 4.4 |
| Total Fat | g | 0.9 | 1.2 |
| Saturated Fat | g | 0.2 | 0.3 |
| Docosahexaenoic Acid (DHA) | mg | 77 | 100 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 133 | 173 |
| Vitamin D | mcg | 5.1 | 6.6 |
| Vitamin E | mg α TE | 2.7 | 3.5 |
| Vitamin C | mg | 19 | 25 |
| Vitamin K | mcg | 12 | 16 |
| Thiamin | mg | 0.35 | 0.46 |
| Riboflavin | mg | 0.39 | 0.51 |
| Niacin | mg | 1.8 | 2.3 |
| Vitamin B6 | mg | 0.44 | 0.57 |
| Folic Acid | mcg | 51 | 66 |
| Vitamin B12 | mcg | 0.82 | 1.1 |
| Biotin | mcg | 6.7 | 8.7 |
| Pantothenic Acid | mg | 0.98 | 1.3 |
| Choline | mg | 102 | 133 |
| MINERALS | | | |
| Sodium | mg | 60 | 78 |
| Potassium | mg | 124 | 161 |
| Chloride | mg | 71 | 92 |
| Calcium | mg | 210 | 273 |
| Phosphorus | mg | 190 | 247 |
| Magnesium | mg | 60 | 78 |
| Iron | mg | 3.7 | 4.8 |
| Copper | mg | 0.37 | 0.48 |
| Zinc | mg | 2.8 | 3.6 |
| Manganese | mg | 0.25 | 0.33 |
| Iodine | mcg | 45 | 59 |
| Molybdenum | mcg | 11 | 14 |
| Selenium | mcg | 13 | 17 |
| Chromium | mcg | 7.1 | 9.2 |
| AMINO ACIDS | | | |
| L-Alanine | g | 1.57 | 2.04 |
| L-Arginine | g | 1.49 | 1.94 |
| L-Aspartic Acid | g | 1.88 | 2.44 |
| L-Cystine | g | 0.44 | 0.57 |
| L-Glutamine | g | 0 | 0 |
| Glycine | g | 1.25 | 1.63 |
| L-Histidine | g | 0.53 | 0.69 |
| L-Isoleucine* | g | 0 | 0 |
| L-Leucine* | g | 0 | 0 |
| L-Lysine | g | 1.12 | 1.46 |
| L-Methionine | g | 0.32 | 0.42 |
| L-Phenylalanine | g | 0.84 | 1.09 |
| L-Proline | g | 1.32 | 1.72 |
| L-Serine | g | 0.89 | 1.16 |
| L-Threonine | g | 0.80 | 1.04 |
| L-Tryptophan | g | 0.45 | 0.59 |
| L-Tyrosine | g | 0.89 | 1.16 |
| L-Valine* | g | 0 | 0 |
| L-Carnitine | mg | 13 | 17 |
| Taurine | mg | 25 | 33 |

*No added isoleucine, leucine, and valine.



A powdered glycomacropeptide (GMP)-based low phenylalanine* and tyrosine* medical food for use in the dietary management of Tyrosinemia.

Features

- Suitable from 3 years of age
- A blend of glycomacropeptide (GMP), essential and non-essential amino acids, carbohydrate, fat (including docosahexaenoic acid – DHA), vitamins and minerals
- 1 packet provides 20 g protein equivalent from GMP and amino acids
- Available in Red Berry and Vanilla flavors

*Each packet of TYR sphere20 contains 30 mg of phenylalanine and less than 10.5 mg of tyrosine.



Osmolality

27 g (1 packet) + 120 mL (4 fl oz) water = 1000 mOsm/g

See [page 94](#) for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|-------------------|--------------------|---------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Red Berry | 30 x 35 g packets | 12539-0022-09 | B4157 & B4162 | 812539022091 |
| Vanilla | | 12539-0025-87 | | 812539025870 |

TYR sphere (Red Berry) – Ingredients: Whey Protein Isolate (Milk), L-Leucine, Natural and Artificial Flavor, Glycine, Modified Corn Starch, L-Arginine, Sugar, Soy Lecithin, Calcium Lactate, Magnesium Phosphate, Calcium Phosphate, Corn Syrup, L-Histidine, Choline Bitartrate, Refined Tuna Oil (Fish)*, L-Tryptophan, Beet Juice Concentrate (Color), L-Lysine L-Aspartate, L-Cystine, Sodium Ascorbate, Zinc Gluconate, Maltodextrin, Sucralose, Dipotassium Phosphate, Ferrous Sulfate, L-Methionine, DL-Alpha Tocopheryl Acetate, Potassium Iodide, Mono- and Diglycerides, Chromium Chloride, Sodium Selenite, Sodium Molybdate, Copper Gluconate, Niacinamide, Manganese Gluconate, Vitamin A Acetate, Calcium Pantothenate, Vitamin D3, Vitamin B12, Biotin, Folic Acid, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Riboflavin, Vitamin K1, Tocopherols (Preservative).

Contains: Fish (tuna), Milk, and Soy.

Ingredient lists for all flavored options are available at VitaFloUSA.com

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

| TYR sphere20 Nutrition Information | | | | | |
|------------------------------------|---------|---------------------|-------------------------------|-------------------|-----------------------------|
| | Units | Red Berry per 100 g | Red Berry per 35 g (1 packet) | Vanilla per 100 g | Vanilla per 35 g (1 packet) |
| Calories | kcal | 340 | 120 | 330 | 120 |
| Protein Equivalent | g | 56 | 20 | 56 | 20 |
| Total Carbohydrate | g | 18 | 6.3 | 17 | 6.0 |
| Sugars | g | 4.5 | 3.0 | 7.0 | 2.5 |
| Total Fat | g | 4.5 | 1.6 | 4.5 | 1.6 |
| Saturated Fat | g | 1.0 | 0.4 | 1.5 | 0.5 |
| Docosahexaenoic Acid (DHA) | mg | 314 | 110 | 314 | 110 |
| VITAMINS | | | | | |
| Vitamin A | mcg RE | 690 | 241 | 690 | 241 |
| Vitamin D | mcg | 12 | 4.2 | 12 | 4.2 |
| Vitamin E | mg α TE | 14 | 4.9 | 14 | 4.9 |
| Vitamin C | mg | 80 | 28 | 80 | 28 |
| Vitamin K | mcg | 59 | 21 | 59 | 21 |
| Thiamin | mg | 1.5 | 0.52 | 1.5 | 0.52 |
| Riboflavin | mg | 1.5 | 0.52 | 1.5 | 0.52 |
| Niacin | mg | 8.6 | 3.0 | 8.6 | 3.0 |
| Vitamin B6 | mg | 1.4 | 0.49 | 1.4 | 0.49 |
| Folic Acid | mcg | 260 | 91 | 260 | 91 |
| Vitamin B12 | mcg | 4.1 | 1.4 | 4.1 | 1.4 |
| Biotin | mcg | 5.1 | 1.8 | 5.1 | 1.8 |
| Pantothenic Acid | mg | 32 | 11 | 32 | 11 |
| Choline | mg | 510 | 178 | 510 | 178 |
| MINERALS | | | | | |
| Sodium | mg | 810 | 283 | 810 | 283 |
| Potassium | mg | 590 | 206 | 590 | 206 |
| Chloride | mg | 20 | 7.0 | 20 | 7.0 |
| Calcium | mg | 1010 | 353 | 1010 | 353 |
| Phosphorus | mg | 1050 | 367 | 1050 | 367 |
| Magnesium | mg | 290 | 101 | 290 | 101 |
| Iron | mg | 19.0 | 6.6 | 19.0 | 6.6 |
| Copper | mg | 1.5 | 0.52 | 1.5 | 0.52 |
| Zinc | mg | 19.0 | 6.6 | 19.0 | 6.6 |
| Manganese | mg | 1.0 | 0.35 | 1.0 | 0.35 |
| Iodine | mcg | 210 | 74 | 210 | 74 |
| Molybdenum | mcg | 51 | 18 | 51 | 18 |
| Selenium | mcg | 76 | 27 | 76 | 27 |
| Chromium | mcg | 30 | 10 | 30 | 10 |
| AMINO ACIDS | | | | | |
| L-Alanine | g | 2.36 | 0.83 | 2.36 | 0.83 |
| L-Arginine | g | 4.87 | 1.70 | 4.87 | 1.70 |
| L-Aspartic Acid | g | 3.74 | 1.31 | 3.74 | 1.31 |
| L-Cystine | g | 0.69 | 0.24 | 0.69 | 0.24 |
| L-Glutamine | g | 7.72 | 2.70 | 7.72 | 2.70 |
| Glycine | g | 7.09 | 2.48 | 7.09 | 2.48 |
| L-Histidine | g | 2.01 | 0.70 | 2.01 | 0.70 |
| L-Isoleucine | g | 4.06 | 1.42 | 4.06 | 1.42 |
| L-Leucine | g | 8.62 | 3.02 | 8.62 | 3.02 |
| L-Lysine | g | 2.73 | 0.96 | 2.73 | 0.96 |
| L-Methionine | g | 0.80 | 0.28 | 0.80 | 0.28 |
| L-Phenylalanine | mg | 86 | 30 | 86 | 30 |
| L-Proline | g | 4.58 | 1.60 | 4.58 | 1.60 |
| L-Serine | g | 2.88 | 1.01 | 2.88 | 1.01 |
| L-Threonine | g | 6.55 | 2.29 | 6.55 | 2.29 |
| L-Tryptophan | g | 1.15 | 0.40 | 1.15 | 0.40 |
| L-Tyrosine | mg | <30 | <10.5 | <30 | <10.5 |
| L-Valine | g | 3.27 | 1.14 | 3.27 | 1.14 |



A powdered phenylalanine-free and tyrosine-medical food for use in the dietary management of Tyrosinemia.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, docosahexaenoic acid (DHA), vitamins and minerals
- 1 packet provides 15 g protein equivalent
- Designed to be mixed with water or other permitted beverages to prepare a low volume drink
- Available in Unflavored

Osmolality

25 g (1 packet) + 90 mL (3 fl oz) water = 1705 mOsm/kg

See page 95 for directions for use



Ordering/Reimbursement Information

| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
|------------|-------------------|--------------------|---------------|--------------|
| Unflavored | 30 x 25 g packets | 12539-0024-95 | B4157 & B4162 | 812539024958 |

TYR express plus15 (Unflavored) – Ingredients: L-Lysine L-Aspartate, L-Leucine, Maltodextrin, L-Arginine L-Aspartate, L-Valine, L-Glutamine, L-Isoleucine, L-Proline, L-Alanine, Glycine, L-Threonine, L-Serine, Calcium Phosphate, Corn Starch, L-Histidine, Corn Syrup, Magnesium Phosphate, Refined Tuna Oil (Fish)*, L-Cystine, Potassium Citrate, Choline Bitartrate, L-Tryptophan, L-Methionine, L-Arginine, Modified Corn Starch, Sodium Chloride, Sodium Citrate, Xanthan Gum, Sodium Ascorbate, Soy Lecithin, Taurine, Zinc Gluconate, L-Carnitine L-Tartrate, Potassium Phosphate, Ferrous Sulfate, DL-Alpha Tocopheryl Acetate, Mono- and Diglycerides, Ascorbic Acid, Sodium Selenite, Copper Gluconate, Vitamin D3, Manganese Gluconate, Niacinamide, Vitamin A Acetate, Calcium Pantothenate, Chromium Chloride, Vitamin B12, Biotin, Tocopherols (Preservative), Pyridoxine Hydrochloride, Potassium Iodide, Folic Acid, Thiamine Hydrochloride, Riboflavin, Sodium Molybdate, Vitamin K1.

Contains: Fish (tuna) and Soy. **May contain:** Milk.

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

TYR express plus15 Nutrition Information

| | Units | Per 100 g | Per 25 g (1 packet) |
|----------------------------|---------|-----------|---------------------|
| Calories | kcal | 316 | 79 |
| Protein Equivalent | g | 60 | 15 |
| Total Carbohydrate | g | 14 | 3.5 |
| Sugars | g | 1.2 | 0.3 |
| Total Fat | g | 2.2 | 0.6 |
| Saturated Fat | g | 0.7 | 0.2 |
| Docosahexaenoic Acid (DHA) | mg | 400 | 100 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 690 | 172 |
| Vitamin D | mcg | 24 | 6.0 |
| Vitamin E | mg α TE | 12 | 3.0 |
| Vitamin C | mg | 97 | 24 |
| Vitamin K | mcg | 62 | 15 |
| Thiamin | mg | 1.7 | 0.42 |
| Riboflavin | mg | 2.0 | 0.50 |
| Niacin | mg | 8.8 | 2.2 |
| Vitamin B6 | mg | 2.4 | 0.60 |
| Folic Acid | mcg | 266 | 66 |
| Vitamin B12 | mcg | 4.2 | 1.0 |
| Pantothenic Acid | mg | 5.0 | 1.2 |
| Biotin | mcg | 33 | 8.2 |
| Choline | mg | 533 | 133 |
| MINERALS | | | |
| Sodium | mg | 373 | 93 |
| Potassium | mg | 648 | 162 |
| Chloride | mg | 373 | 93 |
| Calcium | mg | 1060 | 265 |
| Phosphorus | mg | 951 | 238 |
| Magnesium | mg | 293 | 73 |
| Iron | mg | 19 | 4.7 |
| Copper | mg | 1.6 | 0.40 |
| Zinc | mg | 15 | 3.7 |
| Manganese | mg | 1.3 | 0.32 |
| Iodine | mcg | 222 | 55 |
| Molybdenum | mcg | 62 | 15 |
| Selenium | mcg | 71 | 18 |
| Chromium | mcg | 37 | 9.2 |
| AMINO ACIDS | | | |
| L-Alanine | g | 4.46 | 1.12 |
| L-Arginine | g | 5.48 | 1.37 |
| L-Aspartic Acid | g | 8.46 | 2.12 |
| L-Cystine | g | 2.04 | 0.51 |
| L-Glutamine | g | 5.10 | 1.28 |
| Glycine | g | 4.46 | 1.12 |
| L-Histidine | g | 2.99 | 0.75 |
| L-Isoleucine | g | 4.97 | 1.24 |
| L-Leucine | g | 7.96 | 1.99 |
| L-Lysine | g | 5.66 | 1.42 |
| L-Methionine | g | 1.27 | 0.32 |
| L-Phenylalanine* | g | 0 | 0 |
| L-Proline | g | 4.59 | 1.15 |
| L-Serine | g | 3.50 | 0.88 |
| L-Threonine | g | 3.82 | 0.96 |
| L-Tryptophan | g | 1.59 | 0.40 |
| L-Tyrosine* | g | 0 | 0 |
| L-Valine | g | 5.42 | 1.36 |
| L-Carnitine | mg | 56 | 14 |
| Taurine | mg | 117 | 29 |

*No added phenylalanine and tyrosine.



A powdered phenylalanine-free and tyrosine-medical food for use in the dietary management of Tyrosinemia.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, docosahexaenoic acid (DHA), vitamins and minerals
- 1 packet provides 20 g protein equivalent
- Designed to be mixed with water or other permitted beverages to prepare a low volume drink
- Available in Unflavored

Osmolality

34 g (1 packet) + 90 mL (3 fl oz) water = 2155 mOsm/kg

See page 95 for directions for use



| Ordering/Reimbursement Information | | | | |
|------------------------------------|-------------------|--------------------|---------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Unflavored | 30 x 34 g packets | 12539-0024-96 | B4157 & B4162 | 812539024965 |

TYR express plus20 (Unflavored) – Ingredients: L-Lysine L-Aspartate, L-Leucine, Maltodextrin, L-Arginine L-Aspartate, L-Valine, L-Glutamine, L-Isoleucine, L-Proline, L-Alanine, Glycine, L-Threonine, L-Serine, Calcium Phosphate, Corn Starch, L-Histidine, Corn Syrup, Magnesium Phosphate, Refined Tuna Oil (Fish)*, L-Cystine, Potassium Citrate, Choline Bitartrate, L-Tryptophan, L-Methionine, L-Arginine, Modified Corn Starch, Sodium Chloride, Sodium Citrate, Xanthan Gum, Sodium Ascorbate, Soy Lecithin, Taurine, Zinc Gluconate, L-Carnitine L-Tartrate, Potassium Phosphate, Ferrous Sulfate, DL-Alpha Tocopheryl Acetate, Mono- and Diglycerides, Ascorbic Acid, Sodium Selenite, Copper Gluconate, Vitamin D3, Manganese Gluconate, Niacinamide, Vitamin A Acetate, Calcium Pantothenate, Chromium Chloride, Vitamin B12, Biotin, Tocopherols (Preservative), Pyridoxine Hydrochloride, Potassium Iodide, Folic Acid, Thiamine Hydrochloride, Riboflavin, Sodium Molybdate, Vitamin K1.

Contains: Fish (tuna) and Soy. **May contain:** Milk.

*A source of docosahexaenoic acid (DHA).

| TYR express plus20 Nutrition Information | | | |
|--|---------|-----------|---------------------|
| | Units | Per 100 g | Per 34 g (1 packet) |
| Calories | kcal | 316 | 107 |
| Protein Equivalent | g | 60 | 20 |
| Total Carbohydrate | g | 14 | 4.8 |
| Sugars | g | 1.2 | 0.4 |
| Total Fat | g | 2.2 | 0.8 |
| Saturated Fat | g | 0.7 | 0.2 |
| Docosahexaenoic Acid (DHA) | mg | 400 | 136 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 690 | 235 |
| Vitamin D | mcg | 24 | 8.2 |
| Vitamin E | mg α TE | 12 | 4.1 |
| Vitamin C | mg | 97 | 33 |
| Vitamin K | mcg | 62 | 21 |
| Thiamin | mg | 1.7 | 0.58 |
| Riboflavin | mg | 2.0 | 0.68 |
| Niacin | mg | 8.8 | 3.0 |
| Vitamin B6 | mg | 2.4 | 0.82 |
| Folic Acid | mcg | 266 | 90 |
| Vitamin B12 | mcg | 4.2 | 1.4 |
| Pantothenic Acid | mg | 5.0 | 1.7 |
| Biotin | mcg | 33 | 11 |
| Choline | mg | 533 | 181 |
| MINERALS | | | |
| Sodium | mg | 373 | 127 |
| Potassium | mg | 648 | 220 |
| Chloride | mg | 373 | 127 |
| Calcium | mg | 1060 | 360 |
| Phosphorus | mg | 951 | 323 |
| Magnesium | mg | 293 | 100 |
| Iron | mg | 19 | 6.5 |
| Copper | mg | 1.6 | 0.54 |
| Zinc | mg | 15 | 5.1 |
| Manganese | mg | 1.3 | 0.44 |
| Iodine | mcg | 222 | 75 |
| Molybdenum | mcg | 62 | 21 |
| Selenium | mcg | 71 | 24 |
| Chromium | mcg | 37 | 13 |
| AMINO ACIDS | | | |
| L-Alanine | g | 4.46 | 1.52 |
| L-Arginine | g | 5.48 | 1.86 |
| L-Aspartic Acid | g | 8.46 | 2.88 |
| L-Cystine | g | 2.04 | 0.69 |
| L-Glutamine | g | 5.10 | 1.73 |
| Glycine | g | 4.46 | 1.52 |
| L-Histidine | g | 2.99 | 1.02 |
| L-Isoleucine | g | 4.97 | 1.69 |
| L-Leucine | g | 7.96 | 2.71 |
| L-Lysine | g | 5.66 | 1.92 |
| L-Methionine | g | 1.27 | 0.43 |
| L-Phenylalanine* | g | 0 | 0 |
| L-Proline | g | 4.59 | 1.56 |
| L-Serine | g | 3.50 | 1.19 |
| L-Threonine | g | 3.82 | 1.30 |
| L-Tryptophan | g | 1.59 | 0.54 |
| L-Tyrosine* | g | 0 | 0 |
| L-Valine | g | 5.42 | 1.84 |
| L-Carnitine | mg | 56 | 19 |
| Taurine | mg | 117 | 40 |

*No added phenylalanine and tyrosine.



A ready-to-drink phenylalanine- and tyrosine-free medical food for use in the dietary management of Tyrosinemia.



Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 15 g protein equivalent
- Available in Orange and Red flavors

Osmolality

1550 mOsm/kg

See [page 96](#) for directions for use

Ordering/Reimbursement Information

| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
|--------|---------------------|--------------------|---------------|--------------|
| Orange | 30 x 130 mL pouches | 12539-0020-75 | B4162 & B4157 | 812539020752 |
| Red | | 12539-0020-73 | | 812539020738 |

TYR cooler15 (Red) – Ingredients: Water, Sugar, L-Lysine L-Aspartate, L-Leucine, L-Arginine L-Aspartate, Malic Acid, L-Valine, L-Isoleucine, L-Proline, Glycine, L-Alanine, Modified Corn Starch, L-Threonine, Soy Lecithin, L-Serine, L-Histidine, Calcium Phosphate, Glucose Syrup, Magnesium Phosphate, L-Cystine, Refined Tuna Oil (Fish)*, Choline Bitartrate, L-Tryptophan, Potassium Citrate, L-Methionine, L-Arginine, Salt, Maltodextrin, Ascorbic Acid, Natural and Artificial Flavor, Carmine (Color), Xanthan Gum, Acesulfame Potassium, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Acetate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Chromium Chloride, Sodium Molybdate.

Contains: Fish (tuna) and Soy.

Ingredient lists for all flavored options are available at VitaflouSA.com

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

TYR cooler15 Nutrition Information

| | Units | Per 100 mL | Per 150 mL (1 pouch) |
|----------------------------|---------|------------|----------------------|
| Calories | kcal | 75 | 97 |
| Protein Equivalent | g | 11.5 | 15 |
| Total Carbohydrate | g | 5.1 | 6.6 |
| Sugars | g | 3.4 | 4.4 |
| Total Fat | g | 0.9 | 1.2 |
| Saturated Fat | g | 0.2 | 0.3 |
| Docosahexaenoic Acid (DHA) | mg | 77 | 100 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 133 | 173 |
| Vitamin D | mcg | 5.1 | 6.6 |
| Vitamin E | mg α TE | 2.7 | 3.5 |
| Vitamin C | mg | 19 | 25 |
| Vitamin K | mcg | 12 | 16 |
| Thiamin | mg | 0.35 | 0.46 |
| Riboflavin | mg | 0.39 | 0.51 |
| Niacin | mg | 1.8 | 2.3 |
| Vitamin B6 | mg | 0.44 | 0.57 |
| Folic Acid | mcg | 51 | 66 |
| Vitamin B12 | mcg | 0.82 | 1.1 |
| Biotin | mcg | 6.7 | 8.7 |
| Pantothenic Acid | mg | 0.98 | 1.3 |
| Choline | mg | 102 | 133 |
| MINERALS | | | |
| Sodium | mg | 60 | 78 |
| Potassium | mg | 124 | 161 |
| Chloride | mg | 71 | 92 |
| Calcium | mg | 210 | 273 |
| Phosphorus | mg | 190 | 247 |
| Magnesium | mg | 60 | 78 |
| Iron | mg | 3.7 | 4.8 |
| Copper | mg | 0.37 | 0.48 |
| Zinc | mg | 2.8 | 3.6 |
| Manganese | mg | 0.25 | 0.33 |
| Iodine | mcg | 45 | 59 |
| Molybdenum | mcg | 11 | 14 |
| Selenium | mcg | 13 | 17 |
| Chromium | mcg | 7.1 | 9.2 |
| AMINO ACIDS | | | |
| L-Alanine | g | 0.93 | 1.21 |
| L-Arginine | g | 1.14 | 1.48 |
| L-Aspartic Acid | g | 1.76 | 2.29 |
| L-Cystine | g | 0.42 | 0.55 |
| L-Glutamine | g | 0 | 0 |
| Glycine | g | 0.93 | 1.21 |
| L-Histidine | g | 0.62 | 0.81 |
| L-Isoleucine | g | 1.03 | 1.34 |
| L-Leucine | g | 1.66 | 2.16 |
| L-Lysine | g | 1.18 | 1.53 |
| L-Methionine | g | 0.27 | 0.35 |
| L-Phenylalanine* | g | 0 | 0 |
| L-Proline | g | 0.95 | 1.24 |
| L-Serine | g | 0.73 | 0.95 |
| L-Threonine | g | 0.80 | 1.04 |
| L-Tryptophan | g | 0.33 | 0.43 |
| L-Tyrosine* | g | 0 | 0 |
| L-Valine | g | 1.13 | 1.47 |
| L-Carnitine | mg | 13 | 17 |
| Taurine | mg | 25 | 33 |

*No added phenylalanine and tyrosine.



A powdered methionine-free medical food for use in the dietary management of Homocystinuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, docosahexaenoic acid (DHA), vitamins and minerals
- 1 packet provides 15 g protein equivalent
- Designed to be mixed with water or other permitted beverages to prepare a low volume drink
- Available in Unflavored



Osmolality

25 g (1 packet) + 90 mL (3 fl oz) water = 1705 mOsm/kg

See page 95 for directions for use

Ordering/Reimbursement Information

| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
|------------|-------------------|--------------------|---------------|--------------|
| Unflavored | 30 x 25 g packets | 12539-0024-97 | B4157 & B4162 | 812539024972 |

HCU express plus15 (Unflavored) — Ingredients: L-Lysine L-Aspartate, L-Leucine, Maltodextrin, L-Glutamine, L-Valine, L-Isoleucine, L-Proline, L-Arginine Aspartate, Glycine, L-Phenylalanine, L-Tyrosine, L-Threonine, L-Serine, Calcium Phosphate, L-Histidine, Corn Starch, L-Alanine, Corn Syrup, L-Arginine, Magnesium Phosphate, Refined Tuna Oil (Fish)*, L-Cystine, Potassium Citrate, Choline Bitartrate, L-Tryptophan, Modified Corn Starch, Sodium Chloride, Sodium Citrate, Xanthan Gum, Sodium Ascorbate, Soy Lecithin, Taurine, Zinc Gluconate, L-Carnitine L-Tartrate, Potassium Phosphate, Ferrous Sulfate, DL-Alpha Tocopheryl Acetate, Mono- and Diglycerides, Ascorbic Acid, Sodium Selenite, Copper Gluconate, Vitamin D3, Manganese Gluconate, Niacinamide, Vitamin A Acetate, Calcium Pantothenate, Chromium Chloride, Vitamin B12, Biotin, Tocopherols (Preservative), Pyridoxine Hydrochloride, Potassium Iodide, Folic Acid, Thiamine Hydrochloride, Riboflavin, Sodium Molybdate, Vitamin K1.

Contains: Fish (tuna) and Soy. **May contain:** Milk.

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

HCU express plus15 Nutrition Information

| | Units | Per 100 g | Per 25 g (1 packet) |
|----------------------------|---------|-----------|---------------------|
| Calories | kcal | 316 | 79 |
| Protein Equivalent | g | 60 | 15 |
| Total Carbohydrate | g | 14 | 3.5 |
| Sugars | g | 1.2 | 0.3 |
| Total Fat | g | 2.2 | 0.6 |
| Saturated Fat | g | 0.7 | 0.2 |
| Docosahexaenoic Acid (DHA) | mg | 400 | 100 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 690 | 172 |
| Vitamin D | mcg | 24 | 6.0 |
| Vitamin E | mg α TE | 12 | 3.0 |
| Vitamin C | mg | 97 | 24 |
| Vitamin K | mcg | 62 | 15 |
| Thiamin | mg | 1.7 | 0.42 |
| Riboflavin | mg | 2.0 | 0.50 |
| Niacin | mg | 8.8 | 2.2 |
| Vitamin B6 | mg | 2.4 | 0.60 |
| Folic Acid | mcg | 266 | 66 |
| Vitamin B12 | mcg | 4.2 | 1.0 |
| Pantothenic Acid | mg | 5.0 | 1.2 |
| Biotin | mcg | 33 | 8.2 |
| Choline | mg | 533 | 133 |
| MINERALS | | | |
| Sodium | mg | 373 | 93 |
| Potassium | mg | 648 | 162 |
| Chloride | mg | 373 | 93 |
| Calcium | mg | 1060 | 265 |
| Phosphorus | mg | 951 | 238 |
| Magnesium | mg | 293 | 73 |
| Iron | mg | 19 | 4.7 |
| Copper | mg | 1.6 | 0.40 |
| Zinc | mg | 15 | 3.7 |
| Manganese | mg | 1.3 | 0.32 |
| Iodine | mcg | 222 | 55 |
| Molybdenum | mcg | 62 | 15 |
| Selenium | mcg | 71 | 18 |
| Chromium | mcg | 37 | 9.2 |
| AMINO ACIDS | | | |
| L-Alanine | g | 2.95 | 0.74 |
| L-Arginine | g | 4.90 | 1.23 |
| L-Aspartic Acid | g | 6.56 | 1.64 |
| L-Cystine | g | 1.97 | 0.49 |
| L-Glutamine | g | 5.80 | 1.45 |
| Glycine | g | 4.31 | 1.08 |
| L-Histidine | g | 3.07 | 0.77 |
| L-Isoleucine | g | 4.62 | 1.16 |
| L-Leucine | g | 8.00 | 2.00 |
| L-Lysine | g | 5.15 | 1.29 |
| L-Methionine* | g | 0 | 0 |
| L-Phenylalanine | g | 3.57 | 0.89 |
| L-Proline | g | 4.50 | 1.13 |
| L-Serine | g | 3.45 | 0.86 |
| L-Threonine | g | 3.51 | 0.88 |
| L-Tryptophan | g | 1.54 | 0.39 |
| L-Tyrosine | g | 3.54 | 0.89 |
| L-Valine | g | 5.08 | 1.27 |
| L-Carnitine | mg | 56 | 14 |
| Taurine | mg | 117 | 29 |

*No added methionine.



A powdered methionine-free medical food for use in the dietary management of Homocystinuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, docosahexaenoic acid (DHA), vitamins and minerals
- 1 packet provides 20 g protein equivalent
- Designed to be mixed with water or other permitted beverages to prepare a low volume drink
- Available in Unflavored

Osmolality

34 g (1 packet) + 90 mL (3 fl oz) water = 2155 mOsm/kg

See page 95 for directions for use



| HCU express plus20 Nutrition Information | | | |
|--|---------|-----------|---------------------|
| | Units | Per 100 g | Per 34 g (1 packet) |
| Calories | kcal | 316 | 107 |
| Protein Equivalent | g | 60 | 20 |
| Total Carbohydrate | g | 14 | 4.8 |
| Sugars | g | 1.2 | 0.4 |
| Total Fat | g | 2.2 | 0.8 |
| Saturated Fat | g | 0.7 | 0.2 |
| Docosahexaenoic Acid (DHA) | mg | 400 | 136 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 690 | 235 |
| Vitamin D | mcg | 24 | 8.2 |
| Vitamin E | mg α TE | 12 | 4.1 |
| Vitamin C | mg | 97 | 33 |
| Vitamin K | mcg | 62 | 21 |
| Thiamin | mg | 1.7 | 0.58 |
| Riboflavin | mg | 2.0 | 0.68 |
| Niacin | mg | 8.8 | 3.0 |
| Vitamin B6 | mg | 2.4 | 0.82 |
| Folic Acid | mcg | 266 | 90 |
| Vitamin B12 | mcg | 4.2 | 1.4 |
| Pantothenic Acid | mcg | 5.0 | 1.7 |
| Biotin | mcg | 33 | 11 |
| Choline | mg | 533 | 181 |
| MINERALS | | | |
| Sodium | mg | 373 | 127 |
| Potassium | mg | 648 | 220 |
| Chloride | mg | 373 | 127 |
| Calcium | mg | 1060 | 360 |
| Phosphorus | mg | 951 | 323 |
| Magnesium | mg | 293 | 100 |
| Iron | mg | 19 | 6.5 |
| Copper | mg | 1.6 | 0.54 |
| Zinc | mg | 15 | 5.1 |
| Manganese | mg | 1.3 | 0.44 |
| Iodine | mcg | 222 | 75 |
| Molybdenum | mcg | 62 | 21 |
| Selenium | mcg | 71 | 24 |
| Chromium | mcg | 37 | 13 |
| AMINO ACIDS | | | |
| L-Alanine | g | 2.95 | 1.00 |
| L-Arginine | g | 4.90 | 1.67 |
| L-Aspartic Acid | g | 6.56 | 2.23 |
| L-Cystine | g | 1.97 | 0.67 |
| L-Glutamine | g | 5.80 | 1.97 |
| Glycine | g | 4.31 | 1.47 |
| L-Histidine | g | 3.07 | 1.04 |
| L-Isoleucine | g | 4.62 | 1.57 |
| L-Leucine | g | 8.00 | 2.72 |
| L-Lysine | g | 5.15 | 1.75 |
| L-Methionine* | g | 0 | 0 |
| L-Phenylalanine | g | 3.57 | 1.21 |
| L-Proline | g | 4.50 | 1.53 |
| L-Serine | g | 3.45 | 1.17 |
| L-Threonine | g | 3.51 | 1.19 |
| L-Tryptophan | g | 1.54 | 0.52 |
| L-Tyrosine | g | 3.54 | 1.20 |
| L-Valine | g | 5.08 | 1.73 |
| L-Carnitine | mg | 56 | 19 |
| Taurine | mg | 117 | 40 |

*No added methionine.



A ready-to-drink methionine-free medical food for use in the dietary management of Homocystinuria.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 15 g protein equivalent
- Available in Orange and Red flavors

Osmolality

1550 mOsm/kg

See [page 96](#) for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|---------------------|--------------------|---------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Orange | 30 x 130 mL pouches | 12539-0020-66 | B4162 & B4157 | 812539020660 |
| Red | | 12539-0020-64 | | 812539020646 |

HCU cooler15 (Red) – Ingredients: Water, Sugar, L-Lysine L-Aspartate, L-Leucine, Malic Acid, L-Valine, L-Isoleucine, L-Proline, Modified Corn Starch, Glycine, L-Arginine L-Aspartate, Natural and Artificial Flavor, Soy Lecithin, L-Phenylalanine, L-Tyrosine, L-Threonine, L-Serine, L-Histidine, Calcium Phosphate, L-Alanine, Glucose Syrup, L-Arginine, Magnesium Phosphate, Refined Tuna Oil (Fish)*, L-Cystine, Choline Bitartrate, Potassium Citrate, L-Tryptophan, Salt, Maltodextrin, Carmine (Color), Ascorbic Acid, Xanthan Gum, Acesulfame Potassium, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Acetate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Sodium Molybdate, Chromium Chloride.

Contains: Fish (tuna) and Soy.

Ingredient lists for all flavored options are available at VitaflouUSA.com

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

| HCU cooler15 Nutrition Information | | | |
|------------------------------------|---------|------------|----------------------|
| | Units | Per 100 mL | Per 150 mL (1 pouch) |
| Calories | kcal | 75 | 97 |
| Protein Equivalent | g | 11.5 | 15 |
| Total Carbohydrate | g | 5.1 | 6.6 |
| Sugars | g | 3.4 | 4.4 |
| Total Fat | g | 0.9 | 1.2 |
| Saturated Fat | g | 0.2 | 0.3 |
| Docosahexaenoic Acid (DHA) | mg | 77 | 100 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 133 | 173 |
| Vitamin D | mcg | 5.1 | 6.6 |
| Vitamin E | mg α TE | 2.7 | 3.5 |
| Vitamin C | mg | 19 | 25 |
| Vitamin K | mcg | 12 | 16 |
| Thiamin | mg | 0.35 | 0.46 |
| Riboflavin | mg | 0.39 | 0.51 |
| Niacin | mg | 1.8 | 2.3 |
| Vitamin B6 | mg | 0.44 | 0.57 |
| Folic Acid | mcg | 51 | 66 |
| Vitamin B12 | mcg | 0.82 | 1.1 |
| Biotin | mcg | 6.7 | 8.7 |
| Pantothenic Acid | mg | 0.98 | 1.3 |
| Choline | mg | 102 | 133 |
| MINERALS | | | |
| Sodium | mg | 60 | 78 |
| Potassium | mg | 124 | 161 |
| Chloride | mg | 71 | 92 |
| Calcium | mg | 210 | 273 |
| Phosphorus | mg | 190 | 247 |
| Magnesium | mg | 60 | 78 |
| Iron | mg | 3.7 | 4.8 |
| Copper | mg | 0.37 | 0.48 |
| Zinc | mg | 2.8 | 3.6 |
| Manganese | mg | 0.25 | 0.33 |
| Iodine | mcg | 45 | 59 |
| Molybdenum | mcg | 11 | 14 |
| Selenium | mcg | 13 | 17 |
| Chromium | mcg | 7.1 | 9.2 |
| AMINO ACIDS | | | |
| L-Alanine | g | 0.61 | 0.79 |
| L-Arginine | g | 1.01 | 1.31 |
| L-Aspartic Acid | g | 1.35 | 1.76 |
| L-Cystine | g | 0.41 | 0.53 |
| L-Glutamine | g | 0 | 0 |
| Glycine | g | 0.89 | 1.16 |
| L-Histidine | g | 0.64 | 0.83 |
| L-Isoleucine | g | 0.95 | 1.24 |
| L-Leucine | g | 1.65 | 2.15 |
| L-Lysine | g | 1.07 | 1.39 |
| L-Methionine* | g | 0 | 0 |
| L-Phenylalanine | g | 0.74 | 0.96 |
| L-Proline | g | 0.93 | 1.21 |
| L-Serine | g | 0.71 | 0.92 |
| L-Threonine | g | 0.73 | 0.95 |
| L-Tryptophan | g | 0.32 | 0.42 |
| L-Tyrosine | g | 0.73 | 0.95 |
| L-Valine | g | 1.05 | 1.37 |
| L-Carnitine | mg | 13 | 17 |
| Taurine | mg | 25 | 33 |

*No added methionine.



express[®]15

A powdered methionine-, threonine-, valine-free and low isoleucine medical food for use in the dietary management of Methylmalonic Acidemia and Propionic Acidemia.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 15 g protein equivalent
- Available in Unflavored

Osmolality

25 g (1 packet) + 80 mL (2.7 fl oz) water = 1896 mOsm/kg

See page 95 for directions for use



| Ordering/Reimbursement Information | | | | |
|------------------------------------|-------------------|--------------------|---------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Unflavored | 30 x 25 g packets | 12539-0020-07 | B4162 & B4157 | 812539020073 |

MMA/PA express15 (Unflavored) – Ingredients: L-Lysine Aspartate, Dried Glucose Syrup, L-Arginine Aspartate, L-Leucine, L-Glutamine, L-Alanine, L-Serine, L-Tyrosine, L-Phenylalanine, L-Histidine, Calcium Phosphate, L-Proline, Glycine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Cystine, Choline Bitartrate, L-Tryptophan, Salt, Maltodextrin, Xanthan Gum, Ascorbic Acid, L-Isoleucine, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate, DL-Alpha Tocopheryl Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, D-Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D3, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

Contains: Soy.

MMA/PA express15 Nutrition Information

| | Units | Per 100 g | Per 25 g (1 packet) |
|--------------------|---------|-----------|---------------------|
| Calories | kcal | 297 | 74 |
| Protein Equivalent | g | 60 | 15 |
| Total Carbohydrate | g | 13.7 | 3.4 |
| Sugars | g | 1.0 | 0.2 |
| Total Fat | g | 0.20 | 0.05 |
| Saturated Fat | g | 0 | 0 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 740 | 185 |
| Vitamin D | mcg | 11.7 | 2.9 |
| Vitamin E | mg α TE | 14 | 3.5 |
| Vitamin C | mg | 96 | 24 |
| Vitamin K | mcg | 89 | 22 |
| Thiamin | mg | 1.8 | 0.45 |
| Riboflavin | mg | 2.0 | 0.50 |
| Niacin | mg | 22 | 5.5 |
| Vitamin B6 | mg | 2.5 | 0.63 |
| Folic Acid | mcg | 360 | 90 |
| Vitamin B12 | mcg | 4.3 | 1.1 |
| Biotin | mcg | 170 | 43 |
| Pantothenic Acid | mg | 7.1 | 1.8 |
| Choline | mg | 530 | 133 |
| MINERALS | | | |
| Sodium | mg | 510 | 128 |
| Potassium | mg | 840 | 210 |
| Chloride | mg | 650 | 163 |
| Calcium | mg | 1090 | 273 |
| Phosphorus | mg | 990 | 248 |
| Magnesium | mg | 330 | 83 |
| Iron | mg | 19 | 4.8 |
| Copper | mg | 2.0 | 0.50 |
| Zinc | mg | 19 | 4.8 |
| Manganese | mg | 2.8 | 0.70 |
| Iodine | mcg | 220 | 55 |
| Molybdenum | mcg | 130 | 33 |
| Selenium | mcg | 78 | 20 |
| Chromium | mcg | 78 | 20 |
| AMINO ACIDS | | | |
| L-Alanine | g | 5.92 | 1.48 |
| L-Arginine | g | 6.14 | 1.54 |
| L-Aspartic Acid | g | 10.64 | 2.66 |
| L-Cystine | g | 2.53 | 0.63 |
| L-Glutamine | g | 7.22 | 1.81 |
| Glycine | g | 2.79 | 0.70 |
| L-Histidine | g | 3.97 | 0.99 |
| L-Isoleucine | g | 0.22 | 0.06 |
| L-Leucine | g | 9.39 | 2.35 |
| L-Lysine | g | 6.54 | 1.64 |
| L-Methionine* | g | 0 | 0 |
| L-Phenylalanine | g | 3.97 | 0.99 |
| L-Proline | g | 2.89 | 0.72 |
| L-Serine | g | 4.19 | 1.05 |
| L-Threonine* | g | 0 | 0 |
| L-Tryptophan | g | 1.59 | 0.40 |
| L-Tyrosine | g | 3.97 | 0.99 |
| L-Valine* | g | 0 | 0 |
| L-Carnitine | mg | 64 | 16 |
| Taurine | mg | 132 | 33 |

*No added methionine, threonine, and valine.



cooler¹⁵

A ready-to-drink methionine-, threonine-, valine-free, and low isoleucine medical food for use in the dietary management of Methylmalonic Acidemia and Propionic Acidemia.



Features

- Suitable from 3 years of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins, minerals, and docosahexaenoic acid (DHA)
- 1 pouch provides 15 g protein equivalent
- Available in Red flavor

Osmolality

1550 mOsm/kg

See page 96 for directions for use

Ordering/Reimbursement Information

| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
|--------|---------------------|--------------------|---------------|--------------|
| Red | 30 x 130 mL pouches | 12539-0020-77 | B4162 & B4157 | 812539020776 |

MMA/PA cooler15 (Red) – Ingredients: Water, Sugar, L-Lysine L-Aspartate, L-Arginine L-Aspartate, L-Leucine, Malic Acid, Soy Lecithin, L-Alanine, L-Serine, Modified Corn Starch, L-Histidine, L-Phenylalanine, L-Tyrosine, Natural and Artificial Flavor, L-Proline, Glycine, Calcium Phosphate, L-Cystine, Glucose Syrup, Magnesium Phosphate, Refined Tuna Oil (Fish)*, L-Tryptophan, Choline Bitartrate, Potassium Citrate, Salt, Maltodextrin, Carmine (Color), Ascorbic Acid, Xanthan Gum, Acesulfame Potassium, L-Isoleucine, Sodium Ascorbate, Taurine, Zinc Gluconate, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Mono- and Diglycerides, Copper Gluconate, Vitamin D3, Manganese Gluconate, Vitamin A Acetate, Niacinamide, Calcium Pantothenate, Sodium Selenite, Vitamin B12, Biotin, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Chromium Chloride, Sodium Molybdate.

Contains: Fish (tuna) and Soy.

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

MMA/PA cooler15 Nutrition Information

| | Units | Per 100 mL | Per 130 mL (1 pouch) |
|----------------------------|---------|------------|----------------------|
| Calories | kcal | 75 | 97 |
| Protein Equivalent | g | 11.5 | 15 |
| Total Carbohydrate | g | 5.1 | 6.6 |
| Sugars | g | 3.4 | 4.4 |
| Total Fat | g | 0.9 | 1.2 |
| Saturated Fat | g | 0.2 | 0.3 |
| Docosahexaenoic Acid (DHA) | mg | 77 | 100 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 133 | 173 |
| Vitamin D | mcg | 5.1 | 6.6 |
| Vitamin E | mg α TE | 2.7 | 3.5 |
| Vitamin C | mg | 19 | 25 |
| Vitamin K | mcg | 12 | 16 |
| Thiamin | mg | 0.35 | 0.46 |
| Riboflavin | mg | 0.39 | 0.51 |
| Niacin | mg | 1.8 | 2.3 |
| Vitamin B6 | mg | 0.44 | 0.57 |
| Folic Acid | mcg | 51 | 66 |
| Vitamin B12 | mcg | 0.82 | 1.1 |
| Biotin | mcg | 6.7 | 8.7 |
| Pantothenic Acid | mg | 0.98 | 1.3 |
| Choline | mg | 102 | 133 |
| MINERALS | | | |
| Sodium | mg | 60 | 78 |
| Potassium | mg | 124 | 161 |
| Chloride | mg | 71 | 92 |
| Calcium | mg | 210 | 273 |
| Phosphorus | mg | 190 | 247 |
| Magnesium | mg | 60 | 78 |
| Iron | mg | 3.7 | 4.8 |
| Copper | mg | 0.37 | 0.48 |
| Zinc | mg | 2.8 | 3.6 |
| Manganese | mg | 0.25 | 0.33 |
| Iodine | mcg | 45 | 59 |
| Molybdenum | mcg | 11 | 14 |
| Selenium | mcg | 13 | 17 |
| Chromium | mcg | 7.1 | 9.2 |
| AMINO ACIDS | | | |
| L-Alanine | g | 1.22 | 1.59 |
| L-Arginine | g | 1.25 | 1.63 |
| L-Aspartic Acid | g | 2.12 | 2.76 |
| L-Cystine | g | 0.53 | 0.69 |
| L-Glutamine | g | 0 | 0 |
| Glycine | g | 0.58 | 0.75 |
| L-Histidine | g | 0.82 | 1.07 |
| L-Isoleucine | g | 0.04 | 0.05 |
| L-Leucine | g | 1.72 | 2.24 |
| L-Lysine | g | 1.33 | 1.73 |
| L-Methionine* | g | 0 | 0 |
| L-Phenylalanine | g | 0.82 | 1.07 |
| L-Proline | g | 0.60 | 0.78 |
| L-Serine | g | 0.90 | 1.17 |
| L-Threonine* | g | 0 | 0 |
| L-Tryptophan | g | 0.34 | 0.44 |
| L-Tyrosine | g | 0.82 | 1.07 |
| L-Valine* | g | 0 | 0 |
| L-Carnitine | mg | 13 | 17 |
| Taurine | mg | 25 | 33 |

*No added methionine, threonine, and valine.



A powdered lysine-free and low tryptophan medical food for use in the dietary management of Glutaric Aciduria Type 1.

Features

- Suitable from 3 years of age
- A blend of essential and non-essential of amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 15 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored



Osmolality

25 g (1 packet) + 80 mL (2.7 fl oz) water = 1896 mOsm/kg

See [page 95](#) for directions for use

Ordering/Reimbursement Information

| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
|------------|-------------------|--------------------|---------------|--------------|
| Unflavored | 30 x 25 g packets | 12539-0020-10 | B4162 & B4157 | 812539020103 |

GA express15 (Unflavored) – Ingredients: Dried Glucose Syrup, L-Leucine, L-Alanine, L-Valine, L-Arginine, L-Isoleucine, L-Tyrosine, L-Proline, L-Threonine, L-Serine, L-Phenylalanine, Glycine, L-Aspartic Acid, Calcium Phosphate, L-Histidine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Cystine, Choline Bitartrate, L-Methionine, Salt, Maltodextrin, L-Tryptophan, Xanthan Gum, Ascorbic Acid, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate, DL-Alpha Tocopheryl Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, D-Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D3, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

Contains: Soy.

GA express15 Nutrition Information

| | Units | Per 100 g | Per 25 g (1 packet) |
|--------------------|---------|-----------|---------------------|
| Calories | kcal | 297 | 74 |
| Protein Equivalent | g | 60 | 15 |
| Total Carbohydrate | g | 13.7 | 3.4 |
| Sugars | g | 1.0 | 0.2 |
| Total Fat | g | 0.20 | 0.05 |
| Saturated Fat | g | 0 | 0 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 740 | 185 |
| Vitamin D | mcg | 11.7 | 2.9 |
| Vitamin E | mg α TE | 14 | 3.5 |
| Vitamin C | mg | 96 | 24 |
| Vitamin K | mcg | 89 | 22 |
| Thiamin | mg | 1.8 | 0.45 |
| Riboflavin | mg | 2.0 | 0.50 |
| Niacin | mg | 22 | 5.5 |
| Vitamin B6 | mg | 2.5 | 0.63 |
| Folic Acid | mcg | 360 | 90 |
| Vitamin B12 | mcg | 4.3 | 1.1 |
| Biotin | mcg | 170 | 43 |
| Pantothenic Acid | mg | 7.1 | 1.8 |
| Choline | mg | 530 | 133 |
| MINERALS | | | |
| Sodium | mg | 510 | 128 |
| Potassium | mg | 840 | 210 |
| Chloride | mg | 650 | 163 |
| Calcium | mg | 1090 | 273 |
| Phosphorus | mg | 990 | 248 |
| Magnesium | mg | 330 | 83 |
| Iron | mg | 19 | 4.8 |
| Copper | mg | 2.0 | 0.50 |
| Zinc | mg | 19 | 4.8 |
| Manganese | mg | 2.8 | 0.70 |
| Iodine | mcg | 220 | 55 |
| Molybdenum | mcg | 130 | 33 |
| Selenium | mcg | 78 | 20 |
| Chromium | mcg | 78 | 20 |
| AMINO ACIDS | | | |
| L-Alanine | g | 6.43 | 1.61 |
| L-Arginine | g | 6.03 | 1.51 |
| L-Aspartic Acid | g | 3.76 | 0.94 |
| L-Cystine | g | 2.30 | 0.58 |
| L-Glutamine | g | 0 | 0 |
| Glycine | g | 4.05 | 1.01 |
| L-Histidine | g | 2.83 | 0.71 |
| L-Isoleucine | g | 5.21 | 1.30 |
| L-Leucine | g | 9.04 | 2.26 |
| L-Lysine* | g | 0 | 0 |
| L-Methionine | g | 1.59 | 0.40 |
| L-Phenylalanine | g | 4.34 | 1.09 |
| L-Proline | g | 5.07 | 1.27 |
| L-Serine | g | 4.49 | 1.12 |
| L-Threonine | g | 4.85 | 1.21 |
| L-Tryptophan | g | 0.45 | 0.11 |
| L-Tyrosine | g | 5.07 | 1.27 |
| L-Valine | g | 6.36 | 1.59 |
| L-Carnitine | mg | 64 | 16 |
| Taurine | mg | 132 | 33 |

*No added lysine.



A powdered essential amino acid medical food for the dietary management of Urea Cycle Disorders.

Features

- Suitable from 1 year of age
- A blend of essential amino acids, carbohydrate, fat (including docosahexaenoic acid – DHA), vitamins and minerals
- 2 level scoops (33 g) provide 5 g protein equivalent
- Available in Unflavored



Osmolality

33 g (2 scoops) + 120 mL (4 fl oz) water = 661 mOsm/kg

See page 98 for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|---------------|--------------------|---------------|---------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Unflavored | 6 x 400 g can | 60014-0051-82 | B4157 & B4162 | 5060014051820 |

UCD trio (Unflavored) – Ingredients: Dried Glucose Syrup, Blend of Vegetable Oils (High Oleic Sunflower Oil, Soybean Oil), Sugar, L-Leucine, Calcium Phosphate, L-Lysine Acetate, L-Valine, L-Isoleucine, and less than 2% of: Sodium Citrate, Potassium Chloride, L-Threonine, Magnesium Hydrogen Phosphate, L-Tyrosine, Choline Bitartrate, L-Phenylalanine, L-Methionine, L-Histidine, Schizochytrium sp oil *, L-Cystine, Maltodextrin, L-Tryptophan, Citric Acid Esters of Mono and Di-Glycerides of Fatty Acids, Xanthan Gum, Magnesium Acetate, L-Ascorbic Acid, Zinc Gluconate, Sodium Caseinate (Milk), Inositol, Taurine, Sodium Ascorbate, Ferrous Sulfate, L-Carnitine L-Tartrate, DL Alpha Tocopheryl Acetate, Potassium Phosphate, Manganese Gluconate, Mono and Di-Glycerides of Fatty Acids, Niacinamide, Copper Gluconate, Vitamin A Acetate, Calcium Pantothenate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Folic Acid, Chromium Chloride, Potassium Iodide, Sodium Molybdate, Sodium Selenite, Biotin, Vitamin K1, Vitamin D3, Vitamin B12, Tocopherols (Preservative), Ascorbyl Palmitate (Preservative).

*A source of docosahexaenoic acid (DHA)

Contains: Milk

*A source of docosahexaenoic acid (DHA).

| UCD trio Nutrition Information | | | |
|--------------------------------|---------|-----------|----------------------|
| | Units | Per 100 g | Per 16.5 g (1 scoop) |
| Calories | kcal | 393 | 65 |
| Protein Equivalent | g | 15 | 2.5 |
| Total Carbohydrate | g | 51 | 8.4 |
| Sugars | g | 16.4 | 2.7 |
| Total Fat | g | 14.3 | 2.4 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 623 | 103 |
| Vitamin D | mcg | 22.5 | 3.7 |
| Vitamin E | mg α TE | 11.7 | 1.9 |
| Vitamin C | mg | 81 | 13.4 |
| Vitamin K | mcg | 75 | 12.4 |
| Thiamin | mg | 15 | 0.25 |
| Riboflavin | mg | 1.8 | 0.30 |
| Niacin | mg | 12.8 | 2.1 |
| Vitamin B6 | mg | 2.1 | 0.35 |
| Folic Acid | mcg | 420 | 69.3 |
| Vitamin B12 | mcg | 3.6 | 0.59 |
| Biotin | mcg | 90 | 14.9 |
| Pantothenic Acid | mg | 6.0 | 0.99 |
| Choline | mg | 450 | 74.3 |
| Inositol | mg | 90 | 14.9 |
| MINERALS | | | |
| Sodium | mg | 426 | 70.3 |
| Potassium | mg | 783 | 129 |
| Chloride | mg | 690 | 114 |
| Calcium | mg | 1275 | 210 |
| Phosphorus | mg | 936 | 154 |
| Magnesium | mg | 225 | 37.1 |
| Iron | mg | 16.2 | 2.7 |
| Copper | mcg | 1400 | 231 |
| Zinc | mg | 16.3 | 2.7 |
| Manganese | mg | 2.4 | 0.40 |
| Iodine | mcg | 189 | 31.2 |
| Molybdenum | mcg | 108 | 17.8 |
| Selenium | mcg | 66 | 10.9 |
| Chromium | mcg | 66 | 10.9 |
| AMINO ACIDS | | | |
| L-Alanine | g | 0 | 0 |
| L-Arginine | g | 0 | 0 |
| L-Aspartic Acid | g | 0 | 0 |
| L-Cystine | g | 0.56 | 0.09 |
| L-Glutamine | g | 0 | 0 |
| Glycine | g | 0 | 0 |
| L-Histidine | g | 0.68 | 0.11 |
| L-Isoleucine | g | 2.71 | 0.45 |
| L-Leucine | g | 4.52 | 0.75 |
| L-Lysine | g | 2.48 | 0.41 |
| L-Methionine | g | 0.71 | 0.12 |
| L-Phenylalanine | g | 0.85 | 0.14 |
| L-Proline | g | 0 | 0 |
| L-Serine | g | 0 | 0 |
| L-Threonine | g | 1.55 | 0.26 |
| L-Tryptophan | g | 0.49 | 0.08 |
| L-Tyrosine | g | 1.47 | 0.24 |
| L-Valine | g | 2.71 | 0.45 |
| L-Carnitine | mg | 64 | 11 |
| Taurine | mg | 32 | 5.3 |



A powdered essential amino acid medical food for the dietary management of Urea Cycle Disorders.

Features

- Suitable from 3 years of age
- A blend of essential amino acids, carbohydrate, docosahexaenoic acid (DHA), vitamins and minerals
- 1 packet contains 5 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Tropical flavor

Osmolality

12.5 g (1 packet) + 100 mL (3 fl oz) water = 647 mOsm/kg

See page 99 for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|---------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| EAA Supplement | 30 x 12.5 g packets | 12539-0025-19 | B4157 | 812539025191 |

EAA Supplement – Ingredients: Sugar, L-leucine, L-lysine acetate, L-valine, L-isoleucine, Calcium phosphate, Modified corn starch, L-threonine, L-tyrosine, Malic acid, Dried glucose syrup, Magnesium gluconate, Refined tuna oil (fish), Magnesium phosphate, Natural and artificial flavor, L-phenylalanine, L-methionine, Choline bitartrate, L-histidine, Maltodextrin, L-cystine, L-tryptophan, Xanthan gum, Sodium ascorbate, Soy lecithin, L-carnitine L-tartrate, Zinc gluconate, Dipotassium phosphate, Ferrous sulfate, DL-alpha tocopheryl acetate, Mono- and diglycerides, Ascorbic acid, Acesulfame potassium, Sucralose, Sodium selenite, Copper gluconate, Vitamin D3, Manganese gluconate, Niacinamide, Vitamin A acetate, Calcium pantothenate, Chromium chloride, Vitamin B12, Biotin, Pyridoxine hydrochloride, Potassium iodide, Folic acid, Thiamine hydrochloride, Riboflavin, Sodium molybdate, Vitamin K1, Tocopherols (preservative).

Contains: Fish (tuna) and Soy.

May contain: Milk.

EAA Supplement Nutrition Information

| | Units | Per 100 g | Per 12.5 g (1 packet) |
|----------------------------|---------|-----------|-----------------------|
| Calories | kcal | 310 | 39 |
| Protein Equivalent | g | 40 | 5.0 |
| Total Carbohydrate | g | 31 | 3.9 |
| Sugars | g | 19 | 2.4 |
| Total Fat | g | 2.9 | 0.4 |
| Saturated Fat | g | 1.0 | 0.1 |
| Docosahexaenoic Acid (DHA) | mg | 530 | 66 |
| VITAMINS | | | |
| Vitamin A | µg RE | 1000 | 125 |
| Vitamin D | µg | 39 | 4.9 |
| Vitamin E | mg α TE | 15 | 1.9 |
| Vitamin C | mg | 145 | 18 |
| Vitamin K | µg | 94 | 12 |
| Thiamin | mg | 2.6 | 0.32 |
| Riboflavin | mg | 2.9 | 0.36 |
| Niacin | mg | 13 | 1.6 |
| Vitamin B6 | mg | 3.6 | 0.45 |
| Folic Acid | µg | 390 | 49 |
| Vitamin B12 | µg | 5.9 | 0.74 |
| Biotin | µg | 48 | 6.0 |
| Pantothenic Acid | mg | 7.3 | 0.91 |
| Choline | mg | 600 | 75 |
| MINERALS | | | |
| Sodium | mg | 52 | 6.5 |
| Potassium | mg | 40 | 5.0 |
| Chloride | mg | 0 | 0 |
| Calcium | mg | 2200 | 275 |
| Phosphorus | mg | 1400 | 175 |
| Magnesium | mg | 500 | 62 |
| Iron | mg | 28 | 3.5 |
| Copper | mg | 2.3 | 0.29 |
| Zinc | mg | 22 | 2.7 |
| Manganese | mg | 2.1 | 0.26 |
| Iodine | mcg | 320 | 40 |
| Molybdenum | µg | 90 | 11 |
| Selenium | µg | 102 | 13 |
| Chromium | µg | 54 | 6.7 |
| AMINO ACIDS | | | |
| L-Cystine | g | 1.43 | 0.18 |
| L-Histidine | g | 1.71 | 0.21 |
| L-Isoleucine | g | 6.84 | 0.85 |
| L-Leucine | g | 11.41 | 1.43 |
| L-Lysine | g | 6.24 | 0.78 |
| L-Methionine | g | 1.80 | 0.22 |
| L-Phenylalanine | g | 2.14 | 0.27 |
| L-Threonine | g | 3.91 | 0.49 |
| L-Tryptophan | g | 1.23 | 0.15 |
| L-Tyrosine | g | 3.71 | 0.46 |
| L-Valine | g | 6.85 | 0.86 |
| L-Carnitine | mg | 130 | 16 |



A powdered formula containing whey protein, carbohydrate, fat (high in medium chain triglycerides [MCT]), low in long chain triglycerides [LCT]), vitamins, minerals, DHA and ARA.



Features

- Suitable from 1 year of age
- For use in the dietary management of long chain fatty acid oxidation disorders, fat malabsorption, and other disorders requiring a high MCT, low LCT formula
- 99% of protein from whey
- Can be used as oral supplement or tube feeding
- Neutral taste (Unflavored)

Osmolality

20 kcal/fl oz (0.67 kcal/mL) dilution:

5 g powder (1 scoop) + 30 mL (1 fl oz) water = 180 mOsm/kg

See page 100 for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|---------------|--------------------|---------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| LIPIstart | 6 x 400 g can | 12539-0021-33 | B4150 & B4158 | 812539021339 |

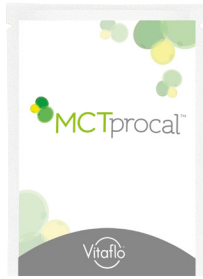
LIPIstart – Ingredients: Dried Corn Syrup, Medium Chain Triglycerides (From Coconut and Palm Kernel Oil), Whey Protein Concentrate (Milk), Soybean Oil, Calcium Phosphate, Canola Oil, Mono- and Diglycerides, Potassium Chloride, Choline Bitartrate, Potassium Citrate, Maltodextrin, M. Alpina Oil*, Magnesium Phosphate, C. Cohnii Oil**, Calcium Chloride, Sodium Ascorbate, Sodium Caseinate, Dipotassium Phosphate, Inositol, Taurine, Sunflower Oil, Zinc Gluconate, Sodium Citrate, DL-Alpha-Tocopherol Acetate, L-Carnitine L-Tartrate, Ferrous Sulfate, Vitamin D3, Vitamin A Acetate, Niacinamide, Calcium Pantothenate, Copper Gluconate, Manganese Gluconate, Riboflavin, Thiamine Hydrochloride, Pyridoxine Hydrochloride, Vitamin K1, Citric Acid, Ascorbyl Palmitate (Preservative), Tocopherols (Preservative), Potassium Iodide, Folic Acid, Chromium Chloride, Sodium Molybdate, Sodium Selenite, Biotin, Vitamin B12.

Contains: Milk.

***A source of Arachidonic acid (ARA)**

****A source of Docosahexaenoic acid (DHA)**

| LIPIstart Nutrition Information | | | |
|----------------------------------|---------|-----------|---|
| | Units | Per 100 g | Per 100 mL (at 20 kcal/fl oz dilution) |
| Calories | kcal | 469 | 70 |
| Protein | g | 12 | 1.8 |
| Carbohydrate | g | 58 | 8.7 |
| Sugars | g | 6.0 | 0.9 |
| Total Fat | g | 21 | 3.2 |
| Saturated Fat | g | 16.4 | 2.5 |
| Polyunsaturated Fat | g | 2.1 | 0.31 |
| Linoleic Acid | mg | 1470 | 220 |
| Arachidonic Acid (ARA) | mg | 100 | 15 |
| α-Linolenic Acid | mg | 230 | 34 |
| Docosahexaenoic Acid (DHA) | mg | 100 | 15 |
| Monounsaturated Fat | g | 1.6 | 0.24 |
| Medium Chain Triglycerides (MCT) | g | 15.6 | 2.34 |
| Long Chain Triglycerides (LCT) | g | 4.4 | 0.66 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 408 | 61 |
| Vitamin D | mcg | 9.4 | 1.4 |
| Vitamin E | mg α TE | 6.0 | 0.9 |
| Vitamin C | mg | 53 | 8.0 |
| Vitamin K | mcg | 24 | 3.6 |
| Thiamin | mg | 0.53 | 0.08 |
| Riboflavin | mg | 0.71 | 0.11 |
| Niacin | mg | 3.7 | 0.56 |
| Vitamin B6 | mg | 0.46 | 0.07 |
| Folic Acid | mcg | 71 | 11 |
| Vitamin B12 | mcg | 1.0 | 0.15 |
| Pantothenic Acid | mg | 2.5 | 0.38 |
| Biotin | mcg | 16 | 2.4 |
| Choline | mg | 142 | 21 |
| Inositol | mg | 53 | 8.0 |
| MINERALS | | | |
| Sodium | mg | 210 | 31 |
| Potassium | mg | 430 | 64 |
| Chloride | mg | 320 | 48 |
| Calcium | mg | 355 | 53 |
| Phosphorus | mg | 270 | 40 |
| Magnesium | mg | 40 | 6.0 |
| Iron | mg | 5.1 | 0.77 |
| Copper | mg | 0.36 | 0.05 |
| Zinc | mg | 4.1 | 0.61 |
| Manganese | mg | 0.24 | 0.04 |
| Iodine | mcg | 81 | 12 |
| Molybdenum | mcg | 22 | 3.3 |
| Selenium | mcg | 17 | 2.6 |
| Chromium | mcg | 11 | 1.6 |
| AMINO ACIDS | | | |
| L-Carnitine | mg | 12 | 1.8 |
| Taurine | mg | 40 | 6.0 |



A medium chain triglyceride-based powder, containing a blend of carbohydrate and protein.

Features

- Suitable from 3 years of age
- For the dietary management of disorders of long chain fatty acid oxidation, fat malabsorption and other disorders requiring a high MCT, low long chain triglyceride (LCT) diet
- MCTprocal can be added to a wide variety of foods and drinks*
- May be used to fortify enteral formula with a source of MCT
- Neutral taste (Unflavored)

* not suitable for addition to fruit juice

See [page 101](#) for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|-------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| MCTprocal | 30 x 16 g packets | 12539-0021-58 | B4155 | 812539021582 |

| MCTprocal Nutrition Information | | | | |
|----------------------------------|-------|-----------|---------------------|--|
| | Units | Per 100 g | Per 16 g (1 packet) | |
| Calories | kcal | 703 | 112 | |
| Protein | g | 12.2 | 2.0 | |
| Total Carbohydrate | g | 20.6 | 3.3 | |
| Sugars | g | 3.3 | 0.5 | |
| Total Fat | g | 63.5 | 10 | |
| Saturated Fat | g | 61.2 | 10 | |
| Medium Chain Triglycerides (MCT) | g | 60.7 | 10 | |
| Long Chain Triglycerides (LCT) | g | 0.90 | 0.14 | |
| MINERALS | | | | |
| Sodium | mg | 220 | 35 | |
| Potassium | mg | 542 | 87 | |
| Calcium | mg | 320 | 51 | |
| Phosphorus | mg | 444 | 71 | |

MCTprocal – Ingredients: Medium Chain Triglycerides (from Coconut and Palm Kernel Oil), Glucose Syrup, Sodium Caseinate (milk), Dipotassium Phosphate, Calcium Phosphate.

Contains: Milk



A hydrothermally processed high amylopectin cornstarch. For use in the dietary management of hepatic Glycogen Storage Diseases (GSD) where the use of a long acting cornstarch is indicated.

Features

- Suitable from 5 years of age
- Specialized patented heat and moisture process for slower release starch
- Glycosade can be taken as a drink or given as a bolus via feeding tube
- Available in Unflavored and Lemon flavor

Osmolality

Unflavored: 60 g (1 packet) + 120 mL (4 fl oz) water = 14 mOsm/kg

Lemon flavor: 60 g (1 packet) + 120 mL (4 fl oz) water = 19 mOsm/kg

See [page 102](#) for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|-------------------|--------------------|------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Unflavored | 30 x 60 g packets | 12539-0020-03 | B4155 | 812539021346 |
| Lemon | | 12539-0024-76 | | 812539024767 |

| Glycosade Nutrition Information | | | | | |
|---------------------------------|-------|------------|---------------------|-----------|---------------------|
| | Units | Unflavored | | Flavored | |
| | | Per 100 g | Per 60 g (1 packet) | Per 100 g | Per 60 g (1 packet) |
| Calories | kcal | 352 | 212 | 352 | 212 |
| Protein | g | 0 | 0 | 0 | 0 |
| Total Carbohydrate | g | 88 | 53 | 88 | 53 |
| Sugars | g | 0 | 0 | 0 | 0 |
| Total Fat | g | 0 | 0 | 0 | 0 |
| Saturated Fat | g | 0 | 0 | 0 | 0 |

Unflavored – Ingredient: Cornstarch.

Lemon (artificially flavored) – Ingredients: Cornstarch, Natural and Artificial Flavor, Xanthan Gum, Citric Acid, Sucralose.

S.O.S25™

A powdered neutral tasting carbohydrate drink mix specifically formulated for use as an emergency regimen in the dietary management of inherited metabolic diseases.



Features

- Age indication*:
 - S.O.S25 is recommended from 10 years of age
- *can vary depending on individual requirements
- Pre-measured amounts of carbohydrate
- Use 1 full packet and add sufficient water to achieve a final volume of 200 mL :
 - S.O.S25 = 25% CHO solution
- Neutral taste (Unflavored)

Osmolality

52 g of S.O.S25 + water to a final volume of 200 mL = 390 mOsm/kg

See [page 103](#) for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|-------------------|--------------------|---------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| S.O.S25 | 30 x 52 g packets | 12539-0021-40 | B4157 & B4162 | 812539021407 |

| S.O.S Nutrition Information | | | |
|-----------------------------|-------|-----------|--|
| | Units | Per 100 g | 200 mL of S.O.S25 52 g packet reconstituted |
| Calories | kcal | 380 | 200 |
| Protein | g | 0 | 0 |
| Total Carbohydrate | g | 95 | 50 |
| Sugars | g | 9.0 | 4.7 |
| Total Fat | g | 0 | 0 |
| MINERALS | | | |
| Sodium | mg | <20 | <10 |

S.O.S25 – Ingredient: Dried Glucose Syrup.

SINGLE DOSE AMINO ACIDS:

Vitaflo's Single Dose Amino Acids supply pre-measured doses of amino acids on a carbohydrate base. Suitable from 1 year of age.*

| Product | Amino acid dose | Packet size |
|------------------------|--------------------------|-------------|
| Arginine500 | 500 mg of L-Arginine | 4 g |
| Arginine2000 | 2000 mg of L-Arginine | 4 g |
| Citrulline200 | 200 mg of L-Citrulline | 4 g |
| Citrulline1000 | 1000 mg of L-Citrulline | 4 g |
| Creatine5000 | 5000 mg of Creatine | 6 g |
| Cystine500 | 500 mg of L-Cystine | 4 g |
| Glycine500 | 500 mg of L-Glycine | 4 g |
| Isoleucine50 | 50 mg of L-Isoleucine | 4 g |
| Isoleucine1000 | 1000 mg of L-Isoleucine | 4 g |
| Leucine100 | 100 mg of L-Leucine | 4 g |
| Methionine100 | 100 mg of L-Methionine | 4 g |
| Phenylalanine50 | 50 mg of L-Phenylalanine | 4 g |
| Tyrosine1000 | 1000 mg of L-Tyrosine | 4 g |
| Valine50 | 50 mg of L-Valine | 4 g |
| Valine1000 | 1000 mg of L-Valine | 4 g |

See [page 113](#) for directions for use

*Creatine5000, Cystine500 & Tyrosine1000 are suitable from 3 years of age.

Arginine500

A powdered medical food required for the dietary management of inherited metabolic diseases such as Urea Cycle Disorders, to be used under strict medical supervision to provide the specific amounts of arginine unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Arginine500 | 30 x 4 g packets | 12539-0020-82 | B4155 | 812539020820 |

| Nutrition Information | Units | Per 100 g | Per 4 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 370 | 15 |
| Protein Equivalent | g | 10 | 0.4 |
| L-Arginine | mg | 12500 | 500 |
| Total Carbohydrate | g | 82 | 3.3 |
| Total Fat | g | 0 | 0 |

Arginine500 – Ingredients: Dried Glucose Syrup, L-Arginine.

Citrulline200

A powdered medical food required for the dietary management of inherited metabolic diseases such as Urea Cycle Disorders, to be used under strict medical supervision to provide the specific amounts of citrulline unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Citrulline200 | 30 x 4 g packets | 12539-0020-91 | B4155 | 812539020912 |

| Nutrition Information | Units | Per 100 g | Per 4 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 380 | 15 |
| Protein Equivalent | g | 5.0 | 0.2 |
| L-Citrulline | mg | 5000 | 200 |
| Total Carbohydrate | g | 90 | 3.6 |
| Total Fat | g | 0 | 0 |

Citrulline200 – Ingredients: Maltodextrin, L-Citrulline.

Arginine2000

A powdered medical food required for the dietary management of inherited metabolic diseases such as Urea Cycle Disorders, to be used under strict medical supervision to provide the specific amounts of arginine unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Arginine2000 | 30 x 4 g packets | 12539-0020-83 | B4155 | 812539020837 |

| Nutrition Information | Units | Per 100 g | Per 4 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 360 | 14 |
| Protein Equivalent | g | 42.5 | 1.7 |
| L-Arginine | mg | 50000 | 2000 |
| Total Carbohydrate | g | 47 | 1.9 |
| Total Fat | g | 0 | 0 |

Arginine2000 – Ingredients: L-Arginine, Maltodextrin.

Citrulline1000

A powdered medical food required for the dietary management of inherited metabolic diseases such as Urea Cycle Disorders, to be used under strict medical supervision to provide the specific amounts of citrulline unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Citrulline1000 | 30 x 4 g packets | 12539-0020-89 | B4155 | 812539020899 |

| Nutrition Information | Units | Per 100 g | Per 4 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 370 | 15 |
| Protein Equivalent | g | 20 | 0.8 |
| L-Citrulline | mg | 25000 | 1000 |
| Total Carbohydrate | g | 72 | 2.9 |
| Total Fat | g | 0 | 0 |

Citrulline1000 – Ingredients: Dried Glucose Syrup, L-Citrulline.

Creatine5000

A powdered medical food required for the dietary management of inherited metabolic diseases such as GAMT deficiency and other disorders of creatine synthesis, to be used under strict medical supervision to provide specific amounts of creatine unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Creatine5000 | 30 x 6 g packets | 12539-0020-93 | B4155 | 812539020936 |

| Nutrition Information | Units | Per 100 g | Per 6 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 14 | 0.8 |
| Protein Equivalent | g | 0 | 0 |
| Creatine | mg | 83333 | 5000 |
| Total Carbohydrate | g | 3.6 | 0.2 |
| Total Fat | g | 0 | 0 |

Creatine5000 – Ingredients: Creatine Monohydrate, Maltodextrin, Xanthan Gum.

Glycine500

A powdered medical food required for the dietary management of inherited metabolic diseases such as Isovaleric Acidemia, to be used under strict medical supervision to provide the specific amounts of glycine unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Glycine500 | 30 x 4 g packets | 12539-0020-65 | B4155 | 812539020653 |

| Nutrition Information | Units | Per 100 g | Per 4 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 370 | 15 |
| Protein Equivalent | g | 10 | 0.4 |
| Glycine | mg | 12500 | 500 |
| Total Carbohydrate | g | 82 | 3.3 |
| Total Fat | g | 0 | 0 |

Glycine500 – Ingredients: Maltodextrin, Glycine.

Cystine500

A powdered medical food required for the dietary management of inherited metabolic diseases such as Homocystinuria, to be used under strict medical supervision to provide the specific amounts of cystine unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Cystine500 | 30 x 4 g packets | 12539-0020-95 | B4155 | 812539020950 |

| Nutrition Information | Units | Per 100 g | Per 4 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 370 | 15 |
| Protein Equivalent | g | 10 | 0.4 |
| L-Cystine | mg | 12500 | 500 |
| Total Carbohydrate | g | 82 | 3.3 |
| Total Fat | g | 0 | 0 |

Cystine500 – Ingredients: Dried Glucose Syrup, L-Cystine, Xanthan Gum.

Isoleucine50

A powdered medical food required for the dietary management of inherited metabolic diseases such as Maple Syrup Urine Disease, to be used under strict medical supervision to provide the specific amounts of isoleucine unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Isoleucine50 | 30 x 4 g packets | 12539-0021-00 | B4155 | 812539021001 |

| Nutrition Information | Units | Per 100 g | Per 4 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 384 | 15 |
| Protein Equivalent | g | 1.0 | 0.04 |
| L-Isoleucine | mg | 1250 | 50 |
| Total Carbohydrate | g | 95 | 3.8 |
| Total Fat | g | 0 | 0 |

Isoleucine50 – Ingredients: Dried Glucose Syrup, L-Isoleucine.

Isoleucine1000

A powdered medical food required for the dietary management of inherited metabolic diseases such as Maple Syrup Urine Disease, to be used under strict medical supervision to provide the specific amounts of isoleucine unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Isoleucine1000 | 30 x 4 g packets | 12539-0021-01 | B4155 | 812539021018 |

| Nutrition Information | Units | Per 100 g | Per 4 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 370 | 15 |
| Protein Equivalent | g | 20 | 0.8 |
| L-Isoleucine | mg | 25000 | 1000 |
| Total Carbohydrate | g | 72 | 2.9 |
| Total Fat | g | 0 | 0 |

Isoleucine1000 – Ingredients: Dried Glucose Syrup, L-Isoleucine.

Methionine100

A powdered medical food required for the dietary management of inherited metabolic diseases such as Cobalamin Disorders, to be used under strict medical supervision to provide the specific amounts of methionine unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Methionine100 | 30 x 4 g packets | 12539-0021-08 | B4155 | 812539021001 |

| Nutrition Information | Units | Per 100 g | Per 4 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 378 | 15 |
| Protein Equivalent | g | 2.0 | 0.08 |
| L-Methionine | mg | 2500 | 100 |
| Total Carbohydrate | g | 92 | 3.7 |
| Total Fat | g | 0 | 0 |

Methionine100 – Ingredients: Dried Glucose Syrup, L-Methionine.

Leucine100

A powdered medical food required for the dietary management of inherited metabolic diseases such as branched chain amino acid metabolism and Urea Cycle Disorders, to be used under strict medical supervision to provide the specific amounts of leucine unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Leucine100 | 30 x 4 g packets | 12539-0020-82 | B4155 | 812539021018 |

| Nutrition Information | Units | Per 100 g | Per 4 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 378 | 15 |
| Protein Equivalent | g | 2.0 | 0.08 |
| L-Leucine | mg | 2500 | 100 |
| Total Carbohydrate | g | 92 | 3.7 |
| Total Fat | g | 0 | 0 |

Leucine100 – Ingredients: Dried Glucose Syrup, L-Leucine.

Phenylalanine50

A powdered medical food required for the dietary management of inherited metabolic diseases such as Tyrosinemia, to be used under strict medical supervision to provide the specific amounts of phenylalanine unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Phenylalanine50 | 30 x 4 g packets | 12539-0021-15 | B4155 | 812539021087 |

| Nutrition Information | Units | Per 100 g | Per 4 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 384 | 15 |
| Protein Equivalent | g | 1.0 | 0.04 |
| L-Phenylalanine | mg | 1250 | 50 |
| Total Carbohydrate | g | 95 | 3.8 |
| Total Fat | g | 0 | 0 |

Phenylalanine50 – Ingredients: Dried Glucose Syrup, L-Phenylalanine.

Tyrosine1000

A powdered medical food required for the dietary management of inherited metabolic diseases such as Phenylketonuria, to be used under strict medical supervision to provide the specific amounts of tyrosine unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Tyrosine1000 | 30 x 4 g packets | 12539-0021-16 | B4155 | 812539021162 |

| Nutrition Information | Units | Per 100 g | Per 4 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 370 | 15 |
| Protein Equivalent | g | 20 | 0.8 |
| L-Tyrosine | mg | 25000 | 1000 |
| Total Carbohydrate | g | 72 | 2.9 |
| Total Fat | g | 0 | 0 |

Tyrosine1000 – Ingredients: Dried Glucose Syrup, L-Tyrosine, Xanthan Gum.

Valine1000

A powdered medical food required for the dietary management of inherited metabolic diseases such as Maple Syrup Urine Disease, to be used under strict medical supervision to provide the specific amounts of valine unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Valine1000 | 30 x 4 g packets | 12539-0021-18 | B4155 | 812539021186 |

| Nutrition Information | Units | Per 100 g | Per 4 g (1 packet) |
|-----------------------|-------|-----------|--------------------|
| Calories | kcal | 370 | 15 |
| Protein Equivalent | g | 20 | 0.8 |
| L-Valine | mg | 25000 | 1000 |
| Total Carbohydrate | g | 72 | 2.9 |
| Total Fat | g | 0 | 0 |

Valine1000 – Ingredients: Dried Glucose Syrup, L-Valine.

Valine50

A powdered medical food required for the dietary management of inherited metabolic diseases such as Maple Syrup Urine Disease, to be used under strict medical supervision to provide the specific amounts of valine unable to be achieved by dietary modification alone.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Valine50 | 30 x 4 g packets | 12539-0021-20 | B4155 | 812539021209 |

| Nutrition Information | Units | Per 100 g | 4 g (1 packet) |
|-----------------------|-------|-----------|----------------|
| Calories | kcal | 384 | 15 |
| Protein Equivalent | g | 1.0 | 0.04 |
| L-Valine | mg | 1250 | 50 |
| Total Carbohydrate | g | 95 | 3.8 |
| Total Fat | g | 0 | 0 |

Valine50 – Ingredients: Dried Glucose Syrup, L-Valine.

KIDNEY DISEASE



A powdered formula with low levels of protein, calcium, chloride, potassium, phosphorus and vitamin A, for the dietary management of pediatric kidney disease.

Features

- Suitable from 1 year of age
- A blend of whey protein, carbohydrate, fat (including docosahexaenoic acid – DHA and arachidonic acid – ARA), vitamins, minerals, and low levels of renal specific nutrients
- Can be concentrated to provide up to 2 kcal/mL
- Suitable for oral and tube feeding use
- Neutral taste (Unflavored) to allow for mixing with other formulas and supplements

Osmolality

30 kcal/fl oz (1 kcal/mL) dilution:

7 g powder (1 scoop) + 30 mL (1 fl oz) water = 230 mOsm/kg

Potential renal solute load = 125 mOsm/L

See [page 109](#) for directions for use

Ordering/Reimbursement Information

| | Packaging | Reimbursement Code | HCPSC Code | Product Code |
|--------|---------------|--------------------|------------|--------------|
| Powder | 6 x 400 g can | 12539-0021-49 | B4154 | 812539021490 |

Renastart – Ingredients: Dried Corn Syrup, Vegetable Oil (High Oleic Sunflower, Coconut, Canola, Sunflower), Whey Protein Concentrate (Milk), Mono- and Diglycerides, Magnesium Gluconate, M. Alpina Oil*, Sodium Citrate, Choline Bitartrate, Maltodextrin, C. Cohnii Oil**, L-Tyrosine, Sodium Caseinate, L-Phenylalanine, L-Valine, Calcium Phosphate, Dipotassium Phosphate, Sodium Ascorbate, L-Isoleucine, Calcium Chloride, L-Histidine, L-Threonine, L-Cystine, Taurine, L-Leucine, L-Tryptophan, Potassium Chloride, Inositol, L-Carnitine L-Tartrate, Zinc Gluconate, Calcium Citrate, Sodium Selenite, Ferrous Sulfate, Potassium Iodide, Tocopherols (Preservative), Vitamin D3, Ascorbyl Palmitate (Preservative), Niacinamide, Calcium Pantothenate, Copper Gluconate, Biotin, L-Methionine, Vitamin A Acetate, Chromium Chloride, Folic Acid, Pyridoxine Hydrochloride, Vitamin B12, Vitamin K1, Manganese Gluconate, Riboflavin, Thiamine Hydrochloride, Citric Acid, Sodium Molybdate.

Contains: Milk

* A source of arachidonic acid (ARA)

** A source of docosahexaenoic acid (DHA)

Renastart Nutrition Information

| | Units | per 100 g | per 100 ml (at 30 kcal/fl oz or 1 kcal/ml dilution) |
|----------------------------|---------|-----------|---|
| Calories | kcal | 494 | 100 |
| Protein | g | 7.5 | 1.5 |
| Carbohydrate | g | 62 | 12 |
| Sugars | g | 6.5 | 1.3 |
| Total Fat | g | 24 | 4.8 |
| Saturated Fat | g | 6.0 | 1.2 |
| Linoleic Acid | mg | 3700 | 740 |
| Arachidonic Acid (ARA) | mg | 200 | 40 |
| Docosahexaenoic Acid (DHA) | mg | 115 | 23 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 110 | 22 |
| Vitamin D | mcg | 9.8 | 2.0 |
| Vitamin E | mg α TE | 4.8 | 1.0 |
| Vitamin C | mg | 65 | 13 |
| Vitamin K | mcg | 26 | 5.2 |
| Thiamin | mg | 0.32 | 0.06 |
| Riboflavin | mg | 0.44 | 0.09 |
| Niacin | mg | 3.6 | 0.72 |
| Vitamin B6 | mg | 0.50 | 0.10 |
| Folic Acid | mcg | 70 | 14 |
| Vitamin B12 | mcg | 0.88 | 0.18 |
| Pantothenic Acid | mg | 2.2 | 0.44 |
| Biotin | mcg | 19 | 3.8 |
| Choline | mg | 140 | 28 |
| Inositol | mg | 26 | 5.2 |
| MINERALS | | | |
| Sodium | mg | 210 | 42 |
| Potassium | mg | 95 | 19 |
| Chloride | mg | 80 | 16 |
| Calcium | mg | 100 | 20 |
| Phosphorus | mg | 83 | 17 |
| Magnesium | mg | 35 | 7.0 |
| Iron | mg | 4.5 | 0.90 |
| Copper | mg | 0.34 | 0.07 |
| Zinc | mg | 3.9 | 0.78 |
| Manganese | mg | 0.07 | 0.01 |
| Iodine | mcg | 85 | 17 |
| Molybdenum | mcg | 7.1 | 1.4 |
| Selenium | mcg | 17 | 3.4 |
| Chromium | mcg | 8.4 | 1.7 |
| AMINO ACIDS | | | |
| L-Carnitine | mg | 18 | 3.6 |
| Taurine | mg | 44 | 8.8 |



A ready-to-drink formula with restricted levels of potassium, chloride, phosphorus, calcium, and vitamin A for the dietary management of kidney disease.



Features

- Suitable from 1 year of age
- A blend of protein, carbohydrate, fat (including docosahexaenoic acid – DHA) vitamins, minerals and restricted levels of renal specific nutrients
- Calorie dense: 2 kcal/mL
- Suitable for tube and oral feeding use
- Available in Vanilla flavor

Osmolality

700 mOsm/kg

See [page 110](#) for directions for use

| Ordering/Reimbursement Information | | | | |
|------------------------------------|--------------------|--------------------|------------|--------------|
| Flavor | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| Vanilla | 15 x 200 mL bottle | 12539-0024-84 | B4154 | 812539024842 |

Renastep – Ingredients: Water, Dried Glucose Syrup, Vegetable Oil (High Oleic Sunflower, Canola), Calcium Caseinate (Milk), Sodium Caseinate (Milk), Citric Acid Esters Of Mono- and Diglycerides, Cellulose Gel and Gum, Sodium Citrate, Natural and Artificial Flavor, Calcium Lactate, Schizochytrium Sp. Oil*, Potassium Citrate, Magnesium Chloride, Choline Chloride, Maltodextrin, Salt, Ascorbic Acid, Sodium Ascorbate, Magnesium Oxide, Ferrous Sulfate, Zinc Sulfate, L-Carnitine, Manganese Gluconate, Niacinamide, Copper Gluconate, Vitamin D3, Calcium Pantothenate, Vitamin A Acetate, Biotin, Vitamin B12, Sodium Selenite, Potassium Iodide, Pyridoxine Hydrochloride, Riboflavin, Sodium Molybdate, Thiamine Mononitrate, Vitamin K1, Chromium Chloride, Tocopherols (Preservative), Ascorbyl Palmitate (Preservative), Folic Acid.

Contains: Milk

* A source of Docosahexaenoic Acid (DHA).

| Renastep Nutrition Information | | | |
|--------------------------------|---------|------------|-----------------------|
| | Units | Per 100 mL | Per 200 mL (1 bottle) |
| Calories | kcal | 200 | 400 |
| Protein | g | 4.0 | 8.0 |
| Carbohydrate | g | 21 | 42 |
| Sugars | g | 3.4 | 6.8 |
| Total Fat | g | 11 | 22 |
| Saturated Fat | g | 1.7 | 3.4 |
| Monounsaturated Fat | g | 7.8 | 15.6 |
| Polyunsaturated Fat | g | 1.1 | 2.2 |
| Linoleic Acid | mg | 725 | 1450 |
| α-Linolenic Acid | mg | 150 | 300 |
| Docosahexaenoic Acid (DHA) | mg | 40 | 80 |
| VITAMINS | | | |
| Vitamin A | mcg RE | 39 | 78 |
| Vitamin D | mcg | 1.6 | 3.2 |
| Vitamin E | mg α TE | 4.5 | 8.9 |
| Vitamin C | mg | 8.0 | 16 |
| Vitamin K | mcg | 8.8 | 18 |
| Thiamin | mg | 0.15 | 0.30 |
| Riboflavin | mg | 0.20 | 0.40 |
| Niacin | mg | 1.5 | 3.0 |
| Vitamin B6 | mg | 0.21 | 0.42 |
| Folic Acid | mcg | 25 | 50 |
| Vitamin B12 | mcg | 0.40 | 0.80 |
| Pantothenic Acid | mg | 0.60 | 1.2 |
| Biotin | mcg | 4.0 | 8.0 |
| Choline | mg | 30 | 60 |
| MINERALS | | | |
| Sodium | mg | 84 | 168 |
| Potassium | mg | 35 | 70 |
| Chloride | mg | 60 | 120 |
| Calcium | mg | 47 | 94 |
| Phosphorus | mg | 30 | 60 |
| Magnesium | mg | 15 | 30 |
| Iron | mg | 2.0 | 4.0 |
| Copper | mg | 0.16 | 0.32 |
| Zinc | mg | 1.6 | 3.2 |
| Manganese | mg | 0.20 | 0.40 |
| Iodine | mcg | 22 | 44 |
| Molybdenum | mcg | 8.8 | 18 |
| Selenium | mcg | 6.3 | 13 |
| Chromium | mcg | 3.1 | 6.2 |
| AMINO ACIDS | | | |
| L-Carnitine | mg | 4.0 | 8.0 |

KETOGENIC



Ready-to-drink nutritionally complete ketogenic formula in a 4:1 ratio of fat to carbohydrate and protein; for use in the dietary management of intractable epilepsy and other medical conditions where a ketogenic diet is indicated.

Features

- Suitable from 3 years of age
- Can be used as a sole source of nutrition or an oral supplement in combination with foods as part of a medical ketogenic diet
- Suitable for tube and oral feeding use
- Provides ISSO™ fiber blend supporting digestive health with 3.2 g fiber per bottle
- Available in Vanilla flavor

Osmolality

290 mOsm/kg

See page 113 for directions for use

Ordering/Reimbursement Information

| | Packaging | Reimbursement Code | HCPSC Code | Product Code |
|-------|---------------------|--------------------|------------|--------------|
| K-Flo | 24 x 250 mL bottles | 12539-0025-77 | B4154 | 812539025771 |

K-Flo — Ingredients: Water, High Oleic Sunflower Oil, Canola Oil, Milk Protein Isolate, Pea Fiber, Sodium Citrate, Citric Acid Esters of Mono- and Diglycerides, Potassium Citrate, Gum Acacia, Fructooligosaccharides, Calcium Chloride, Magnesium Chloride, Dipotassium Phosphate, Natural and Artificial Flavor, Inulin, Mono- and Diglycerides, Choline Bitartrate, M. Alpina Oil*, Schizochytrium Sp. Oil**, Ascorbic Acid, Taurine, Maltodextrin, L-Carnitine, Potassium Hydroxide, Sucralose, Ferrous Sulfate, Inositol, Potassium Iodide, Niacinamide, Zinc Sulfate, Manganese Gluconate, Vitamin D3, Vitamin A Acetate, Calcium Pantothenate, Copper Gluconate, Sodium Selenite, Biotin, Vitamin B12, Chromium Chloride, Pyridoxine Hydrochloride, Folic Acid, Riboflavin, Sodium Molybdate, Thiamine Hydrochloride, Tocopherols (Preservative), Ascorbyl Palmitate (Preservative).

Contains: Milk

* A source of arachidonic acid (ARA).

**A source of docosahexaenoic acid (DHA).

K-Flo Nutrition Information

| | Units | Per 100 mL | Per 250 mL (1 bottle) |
|----------------------------|-------|------------|-----------------------|
| Calories | kcal | 150 | 375 |
| Protein | g | 3.4 | 8.5 |
| Total Carbohydrate | g | 1.6 | 4.0 |
| Dietary Fiber | g | 1.3 | 3.2 |
| Sugars | g | 0 | 0 |
| Total Fat | g | 14.7 | 36.8 |
| Saturated Fat | g | 1.4 | 3.5 |
| Monounsaturated Fat | g | 8.8 | 22 |
| Polyunsaturated Fat | g | 1.9 | 4.7 |
| Linoleic Acid | mg | 1460 | 3650 |
| Arachidonic Acid (ARA) | mg | 44 | 110 |
| α-Linolenic Acid | mg | 400 | 1000 |
| Docosahexaenoic Acid (DHA) | mg | 44 | 110 |

VITAMINS

| | | | |
|------------------|---------|------|------|
| Vitamin A | mcg RE | 70 | 175 |
| Vitamin D | mcg | 3.0 | 7.5 |
| Vitamin E | mg α TE | 3.0 | 7.5 |
| Vitamin C | mg | 11 | 27 |
| Vitamin K | mcg | 5.5 | 14 |
| Thiamin | mg | 0.12 | 0.30 |
| Riboflavin | mg | 0.20 | 0.50 |
| Niacin | mg | 1.5 | 3.7 |
| Vitamin B6 | mg | 0.20 | 0.50 |
| Folic Acid | mcg | 23 | 57 |
| Vitamin B12 | mcg | 0.40 | 1.0 |
| Pantothenic Acid | mg | 0.80 | 2.0 |
| Biotin | mcg | 4.0 | 10 |
| Choline | mg | 36 | 90 |
| Inositol | mg | 4.5 | 11 |

MINERALS

| | | | |
|------------|-----|------|------|
| Sodium | mg | 130 | 325 |
| Potassium | mg | 250 | 625 |
| Chloride | mg | 180 | 450 |
| Calcium | mg | 130 | 325 |
| Phosphorus | mg | 80 | 200 |
| Magnesium | mg | 27 | 67 |
| Iron | mg | 1.6 | 4.0 |
| Copper | mg | 0.12 | 0.30 |
| Zinc | mg | 1.0 | 2.5 |
| Manganese | mg | 0.18 | 0.45 |
| Iodine | mcg | 18 | 45 |
| Molybdenum | mcg | 7.5 | 19 |
| Selenium | mcg | 8.5 | 21 |
| Chromium | mcg | 3.0 | 7.5 |

AMINO ACIDS

| | | | |
|-------------|----|----|----|
| L-Carnitine | mg | 17 | 42 |
| Taurine | mg | 36 | 90 |



A ready-to-use liquid emulsion of medium chain triglycerides (MCT) for use in the ketogenic diet or in the dietary management of conditions requiring MCT.

Features

- Suitable from 3 years of age
- 20% MCT emulsion in a 7.6 fl oz (225 mL) bottle
- Can be incorporated into cooking and baking recipes
- May be used to fortify enteral formula with a source of MCT
- Available in Unflavored

Osmolality

50 mOsm/kg

See page 114 for directions for use



A powdered mixture of vitamins and minerals for use in restrictive therapeutic diets for management of conditions such as intractable epilepsy or inherited metabolic diseases.

Features

- Suitable from 4 years of age
- Can be made into a low volume drink
- 0.7 g carbohydrate per packet
- Available in Orange flavor

Osmolality

1 packet (6 g) + 60 mL (2 fl oz) water = 275 mOsm/kg

See page 115 for directions for use



| Ordering/Reimbursement Information | | | | |
|------------------------------------|---------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| K-Quik | 15 x 225 mL bottles | 12539-0025-75 | B4155 | 812539025757 |

| Nutrition Information | | |
|----------------------------------|-------|-----------------------|
| | Units | Per 225 mL (1 bottle) |
| Calories | kcal | 420 |
| Total Fat | g | 47 |
| Saturated Fat | g | 45 |
| Trans Fat | g | 0 |
| Medium Chain Triglycerides (MCT) | g | 45 |
| Long Chain Triglycerides (LCT) | g | 2.0 |
| Sodium | mg | 115 |
| Total Carbohydrate | g | 0 |
| Protein | g | 0 |

Not a significant source of cholesterol, dietary fiber, total sugars, added sugars, vitamin D, calcium, iron, and potassium.

K-Quik – Ingredients: Water, Medium Chain Triglycerides (from Coconut and Palm Kernel Oil), Citric Acid Esters of Mono- and Diglycerides, Mono- and Diglycerides, Sodium Chloride, Tocopherols (Preservative), Sucralose.

| Ordering/Reimbursement Information | | | | |
|------------------------------------|------------------|--------------------|------------|--------------|
| | Packaging | Reimbursement Code | HCPCS Code | Product Code |
| FruitiVits | 30 x 6 g packets | 12539-0021-41 | B4104 | 812539021414 |

| Nutrition Information | | | | |
|-----------------------|---------|-----------|--------------------|--|
| | Units | Per 100 g | Per 6 g (1 packet) | |
| Calories | kcal | 46 | 3 | |
| Protein | g | 0 | 0 | |
| Total Carbohydrate | g | 11.6 | 0.7 | |
| Sugars | g | 0.5 | 0.03 | |
| Total Fat | g | 0 | 0 | |
| Saturated Fat | g | 0 | 0 | |
| VITAMINS | | | | |
| Vitamin A | mcg RE | 7407 | 444 | |
| Vitamin D | mcg | 222 | 13 | |
| Vitamin E | mg α TE | 137 | 8.2 | |
| Vitamin C | mg | 592 | 36 | |
| Vitamin K | mcg | 888 | 53 | |
| Thiamin | mg | 17 | 1.0 | |
| Riboflavin | mg | 20 | 1.2 | |
| Niacin | mg | 222 | 13 | |
| Vitamin B6 | mg | 25 | 1.5 | |
| Folic Acid | mcg | 3555 | 213 | |
| Vitamin B12 | mcg | 41 | 2.5 | |
| Biotin | mcg | 1659 | 100 | |
| Pantothenic Acid | mg | 69 | 4.1 | |
| Choline | mg | 3704 | 222 | |
| MINERALS | | | | |
| Sodium | mg | 45 | 2.7 | |
| Potassium | mg | 180 | 10.8 | |
| Chloride | mg | 20 | 1.2 | |
| Calcium | mg | 1191 | 715 | |
| Phosphorus | mg | 7437 | 446 | |
| Magnesium | mg | 2977 | 179 | |
| Iron | mg | 148 | 8.9 | |
| Copper | mg | 15 | 0.90 | |
| Zinc | mg | 148 | 8.9 | |
| Manganese | mg | 22 | 1.3 | |
| Iodine | mcg | 2504 | 150 | |
| Molybdenum | mcg | 1007 | 60 | |
| Selenium | mcg | 607 | 36 | |
| Chromium | mcg | 607 | 36 | |

FruitiVits – Ingredients: Calcium Phosphate, Magnesium Sulfate, Magnesium Phosphate, Choline Bitartrate, Natural and Artificial Flavor, Citric Acid, Xanthan Gum, Ascorbic Acid, Beta Carotene (Color), Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Zinc Sulfate, Acesulfame Potassium, Nicotinamide, Biotin, Sucralose, Vitamin D3, Calcium Pantothenate, Vitamin A Acetate, Manganese Sulfate, Sodium Selenite, Vitamin B12, Copper Sulfate, Potassium Iodide, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin K1, Folic Acid, Chromium Chloride, Sodium Molybdate.

METABOLIC PRODUCTS: DIRECTIONS FOR USE

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight, and medical condition of the patient.

Important Notice

PKU start must only be consumed by individuals with proven Phenylketonuria in conjunction with human milk or infant formula to provide the phenylalanine, fluid and general nutritional requirements of the infant in quantities as advised by a clinician or dietitian.

Suitable for infants and toddlers.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Preparation guidelines

The standard dilution of 21 kcal/fl oz or 0.69 kcal/mL is made by adding 1 level scoop of PKU start (4.7 g) to 30 mL (1 fl oz) of water. Use only the scoop provided in the can or a gram scale for greatest accuracy.

Storage

Store opened and unopened cans in a cool dry place.

Once opened: Tightly cover open can and use within 3 weeks. Avoid extreme storage temperatures.

Pack Size

4 x 400 g cans

Preparation Guidelines



Pour prescribed amount of water into bottle.



Add the prescribed number of level scoops to the water.



Close the bottle; shake well. Feed infant or toddler immediately. Once feeding begins, use contents within 1 hour or discard.

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

Each 12.5 g packet of PKU explore provides 5 g protein equivalent.

Each 25 g packet of PKU explore provides 10 g protein equivalent.

Important Notice

Must only be consumed by people with proven Phenylketonuria under strict medical supervision.

PKU explore5 is suitable from 6 months of age.

PKU explore10 is suitable from 1 year of age.

Diet must be supplemented with natural protein, water and other nutrients in prescribed quantities to supply phenylalanine, fluid, and general nutrition requirements.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Not intended for use as a human milk substitute.

Preparation Guidelines

Water or permitted drinks should be taken after product consumption. The product should be prepared immediately prior to feeding and any remaining product must be discarded if not used within 1 hour.

Water or permitted drinks should be taken after product consumption.

Storage

Store in a cool dry place.

Packets are designed for single use and should be used immediately once opened.

Pack Size

explore5 — 30 x 12.5 g (0.44 oz) packets

explore10 — 30 x 25 g (0.88 oz) packets

Preparation Guidelines

To prepare PKU explore5 as a spoonable consistency:

1 For PKU explore5, add 12.5 mL (approx. 1 Tbsp) of cold water into a small container with a lid. For PKU explore10, add 25 mL (1.5–2 Tbsp) of cold water into a small container with a lid.

2 Empty the contents of the packet into the container.

3 Secure the lid and shake well for 10 seconds.

4 Leave to stand for 2 minutes, allowing a smooth semi-solid consistency to form. Consume with a spoon.

To prepare PKU explore10 as a low volume drink:

1 Add 80 mL (approx. 3 fl oz) of cold water into a small container with a lid.

2 Empty the contents of the packet into the container.

3 Secure the lid and shake well for 10 seconds.

4 Drink immediately.

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight, and medical condition of the patient.

2 level scoops provide 10 g protein equivalent.

Important Notice

Must only be consumed by people with proven Phenylketonuria under strict medical supervision.

Suitable from 1 year of age.

Diet must be supplemented with natural protein, water and other nutrients in prescribed quantities to supply the phenylalanine, fluid, and general nutrition requirements.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Unopened: PKU trio should be stored in a cool dry place.

Once opened: Use within 1 month.


Any prepared product or formula should be refrigerated and used within 24 hours. Re-shake before use.


Pack Size


400 g (14.11 oz) can


Preparation Guidelines

To prepare 10 g PE:

Measure 2 level scoops into glass/ mixing cup.  **1**

Add approx. 135 mL (4.5 fl oz) of cold water.  **2**

Mix well until all of the powder is dissolved.  **3**

Drink immediately.  **4**

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight, and medical condition of the patient.

Each 180 mL (6 fl oz) bottle of **PKU sphere NEXT15** provides 15 g of Protein Equivalent and contains 23 mg of phenylalanine.

Preparation Guidelines

Shake vigorously before use. If desired, refrigerate before use.

Important Notice

Must only be consumed by people with proven PKU under strict medical supervision.

Diet must be supplemented with natural protein, water, and other nutrients in prescribed quantities to supply phenylalanine, fluid, and general nutrition requirements.

Not for intravenous use. For enteral use (oral and tube feeding). Not for use as a sole source of nutrition.

Storage

Store in a cool dry place or refrigerate before use if desired.

The product should be consumed immediately after opening.


However, if this is not possible, seal cap and consume within 6 hours at room temperature or within 24 hours if refrigerated.

Re-shake well before use to avoid separation.

Pack Size

15 x 180 mL (6 fl oz) bottles

Preparation Guidelines

Shake vigorously before use. If desired, refrigerate before use. 



For more information on PKU sphere liquid, see [page 13](#)

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight, and medical condition of the patient.

Each 8 fl oz (237 mL) carton of PKU sphere20 liquid provides 20 g of protein equivalent and contains 30 mg of phenylalanine.

Important Notice

Must only be consumed by people with proven PKU under strict medical supervision.

Suitable from 3 years of age.

Diet must be supplemented with natural protein, water, and other nutrients in prescribed quantities to supply phenylalanine, fluid, and general nutrition requirements.

Not for intravenous use.

For enteral use only (tube or oral).

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place or refrigerate before use if desired.

The product should be consumed immediately after opening. However, if this is not possible, seal cap and consume within 4 hours at room temperature or within 24 hours if refrigerated. Re-shake well before use.

Pack Size

15 x 237 mL (8 fl oz) cartons, Vanilla

15 x 237 mL (8 fl oz) bottles (Banana, Chocolate)

Preparation Guidelines

Shake vigorously before use.
If desired, refrigerate before use.



For more information on sphere products, see [pages 15–17 and 37](#)

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight and medical condition of the patient.

Each packet of sphere15 provides 15 g protein equivalent and contains 23 mg of phenylalanine.

Each packet of sphere20 provides 20 g protein equivalent and contains 30 mg of phenylalanine.

Important Notice

Must only be consumed by people with a proven metabolic disorder under strict medical supervision.

Suitable from 3 years of age.

Diet must be supplemented with natural protein, water, and other nutrients in prescribed quantities to supply restricted amino acids, fluid, and general nutrition requirements.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place.

The product should be freshly prepared and consumed immediately.

If this is not possible, all prepared products must be tightly covered and consumed within 4 hours at room temperature or within 24 hours if refrigerated.

Pack Size

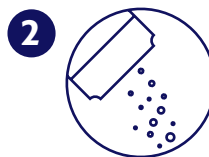
sphere15: 30 x 27 g (0.95 oz) packets

sphere20: 30 x 35 g (1.23 oz) packets

Preparation Guidelines



1 Measure 120 mL (4 fl oz) of water into a cup with a lid.



2 Add one packet of sphere.



3 Secure lid and shake well until the powder is fully dissolved.

For best results the product should be freshly prepared and used immediately. Water or permitted drinks should be taken after product consumption.

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

Each packet of express plus15 provides 15 g protein equivalent.

Each packet of express plus20 provides 20 g protein equivalent.

Important Notice

Must only be consumed by people with a proven metabolic disorder under strict medical supervision.

Suitable from 3 years of age.

Diet must be supplemented with natural protein, water and other nutrients in prescribed quantities to supply the restricted amino acids, fluid and general nutrition requirements.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place. Packets are designed for single use and should be used immediately once opened. Any unused powder in a packet must be tightly sealed and used within 24 hours.

Pack Size

express15 – 30 x 25 g (0.88 oz) packets

express20 – 30 x 34 g (1.2 oz) packets

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body, weight and medical condition of the patient.

Each cooler10 pouch provides 10 g protein equivalent.

Each cooler15 pouch provides 15 g protein equivalent.

Each cooler20 pouch provides 20 g protein equivalent.

Important Notice

Must only be consumed by people with a proven metabolic disorder under strict medical supervision.

Suitable from 3 years of age.

Diet must be supplemented with natural protein, water and other nutrients in prescribed quantities to supply the restricted amino acids, fluid and general nutrition requirements.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place.

Once opened drink immediately or recap, refrigerate and use within 24 hours.

Pack Size

cooler10 – 30 x 87 mL (2.94 fl oz) pouches

cooler15 – 30 x 130 mL (4.39 fl oz) pouches

cooler20 – 30 x 174 mL (5.88 fl oz) pouches

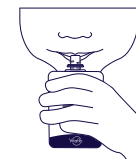
Preparation Guidelines



1 Shake well



2 Open

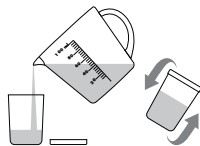


3 Drink

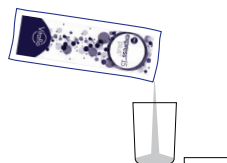
Shake well before use.
Best served chilled.

Water or permitted drinks should be taken after product consumption.

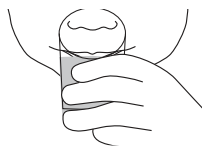
Preparation Guidelines



1 Add 90 mL (3 fl oz) of cold water or other permitted beverages into a cup with a lid.



2 Empty the contents of the packet into the cup.



3 Secure the lid and shake well for 10 seconds until powder dissolves. Drink immediately.

The product should be freshly prepared and used immediately.

Water or permitted drinks should be taken after product consumption.

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight, and medical condition of the patient.

Each pouch of PKU air₂₀ provides 20 g protein equivalent.

Important Notice

Must only be consumed by people with proven Phenylketonuria under strict medical supervision.

Suitable from 3 years of age.

Diet must be supplemented with natural protein, water, and other nutrients in prescribed quantities to supply phenylalanine, fluid, and general nutrition requirements.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place.

Once opened drink immediately or recap, refrigerate and use within 24 hours.

Pack Size

30 x 174 mL (5.88 fl oz) pouches

Preparation Guidelines



1 Shake well



2 Open



3 Drink

Shake well before use.
Best served chilled.

Water or permitted drinks should be taken after product consumption.

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

2 level scoops provide 5 g protein equivalent.

Important Notice

Must only be consumed by people with proven Urea Cycle Disorders and other disorders where the use of essential amino acids is indicated under strict medical supervision.

Diet must be supplemented with natural protein, water, and other nutrients in prescribed quantities to meet fluid and general nutrition requirements.

Suitable from 1 year of age.

Not for intravenous use.

For enteral use only.

Not for use as sole source of nutrition.

Storage

Unopened: UCD trio should be stored in a cool dry place.

Once opened: Use within 1 month.

The product should be freshly prepared and consumed immediately. If this is not possible, all prepared products must be tightly covered and consumed within 4 hours at room temperature or within 24 hours if refrigerated.

Pack Size

400 g (14.11 oz) can

Preparation Guidelines

To prepare 5 g PE:



Measure 120 mL (4 fl oz) of cold water into a cup with a lid.



Add 2 level scoops of UCO trio.



Secure the lid and shake until the powder is fully dissolved.



UCD trio is now ready to use.

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

Each packet of EAA provides 5 g protein equivalent.

Important Notice

Must only be consumed by people with proven Urea Cycle Disorders or other disorders of protein metabolism under strict medical supervision.

Suitable from 3 years of age.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place.

Packets are designed for single use and should be used once opened.

Pack Size

30 x 12.5 g (0.44 oz) packets

Preparation Guidelines

1

Add 90 mL (approx. 3 fl oz) of cold water or other permitted beverages.



2

Empty the contents of the packet into a cup with lid.



3

Secure the lid and shake well until all of the powder is dissolved. Drink immediately.



Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

Important Notice

Must only be used under strict medical supervision.

Suitable from 1 year of age.

Not for intravenous use.

For enteral use only (orally or tube feeding).

Preparation Guidelines

LIPIstart is typically mixed with water. Preparation instructions are given by the dietitian or clinician.

The standard dilution of approximately 20 kcal/fl oz or 0.67 kcal/mL is made by adding 1 level scoop of LIPIstart (5 g) to 30 mL of water (1 fl oz). Use the scoop provided in the can or a gram scale for greatest accuracy.

Any prepared formula should be refrigerated and used within 24 hours. Re-shake before use.

Do not heat LIPIstart in a microwave as uneven heating may occur and could cause a burn. Do not boil LIPIstart.

Storage

Store in a cool dry place.

Once opened, LIPIstart powder must be tightly sealed and consumed within 4 weeks.

Pack Size

400 g (14.1 oz) can

Preparation Guidelines



Wash your hands and clean surfaces, utensils, and formula container.



Boil water and leave to cool for no more than 30 minutes to ensure it remains at a temperature of at least 158°F (70°C).



Measure out the required amount of water into the formula container. Do not use artificially softened water or repeatedly boiled water.



Using the scoop provided, add the prescribed number of scoops of LIPIstart to the water, leveling off each scoop with the back of a clean dry knife. Return dry scoop to LIPIstart can.



Seal formula container and shake well until powder is dissolved. Test the temperature before feeding. The formula should feel warm or cool, but not hot.



LIPIstart is now ready to use.

***Other dilutions and tube-feeding:** To be determined by the clinician or dietitian.

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

Important Notice

Must only be consumed under strict medical supervision.

Suitable from 3 years of age.

Not for intravenous use.

For enteral use only (oral or tube feeding)

Not for use as a sole source of nutrition.

Pack Size

30 x 16 g (0.56 oz) packets

Storage

Unopened: Store in a cool dry place.

Opened: Packets are designed for single use and should be used once opened. Any unused powder in an open packet should be kept in an airtight container, or sealed with a clip and used within 24 hours.

Preparation Guidelines

Sprinkle MCTprocal onto the desired food or drink and stir until powder is dissolved.

MCTprocal can be used in cooking and baking.

May be used to fortify enteral formula with a source of MCT.

Serving suggestions for MCTprocal are available on request.

Not suitable for addition to fruit juice.

Serving Suggestions



Skim Milk — Add the required amount of MCTprocal to warm or cold skim or low fat milk (as directed). Stir until dissolved.



Water — Add the required amount of MCTprocal to previously boiled warm water or cold water. Stir until dissolved.



Hot Drinks

• **Tea** — Add the required amount of MCTprocal to a cup of tea and stir until dissolved.

• **Coffee** — Add the required amount of MCTprocal to coffee granules, add previously boiled hot water. Stir until dissolved.

• **Hot Chocolate** — Add the required amount of MCTprocal to hot skim or low fat milk (as directed) or previously boiled hot water. Stir until dissolved.

Low Fat Desserts or Puddings

— (e.g. custard, rice pudding.) Make up the pudding as directed. Sprinkle the required amount of MCTprocal onto the pudding. Stir until dissolved.



Low Fat Yogurt — Add the required amount of MCTprocal to yogurt (as directed) and mix until smooth.



Oatmeal — Mix the required amount of MCTprocal into hot oatmeal before serving.



Low Fat Soup — Add the required amount of MCTprocal to soup and stir until dissolved.



Mashed Potato — Sprinkle the required amount of MCTprocal onto hot mashed potato and mix well.



Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight and medical condition of the patient.

Important Notice

Must only be used in individuals with proven hepatic GSD where the use of long acting starch is indicated under strict medical supervision.

Suitable from 5 years of age.

Not for intravenous use. For enteral use only. Not for use as a sole source of nutrition. Glycosade may be given through a feeding tube. Not intended for use as a continuous enteral feed. Administer as a bolus to prevent possible tube blockage.

Storage

Store in a cool dry place. Packets are designed for single use and should be used immediately once opened.

Pack Size

30 x 60 g (2.1 oz) packets

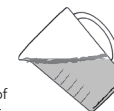
Preparation Guidelines

Preparation to be determined by the clinician or dietitian.

For a recommended preparation as a drink:

1

Measure the required amount of liquid into a container with a lid.



2

Add the required amount of Glycosade to the container. Typically, a packet of Glycosade can be added to 120 mL (4 fl oz) of cold water or other suitable fluids.



3

Secure lid and shake until the powder is dissolved.



4

Glycosade is now ready to use.



DO NOT HEAT OR WARM GLYCOSADE AS THIS DESTROYS THE PROPERTIES OF THE STARCH.

The product should be freshly prepared and consumed immediately.

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight and medical condition of the patient.

Each packet of S.O.S25 prepared to a final volume of 200 mL gives a 25% carbohydrate solution.

Important Notice

Must only be given to patients with proven inherited metabolic diseases under strict medical supervision.

S.O.S25 is recommended from 10 years of age (can vary depending on individual requirements of the patient).

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place. Packets are designed for single use and should be used immediately once opened.

Pack Size

S.O.S25 – 30 x 52 g (1.83 oz) packets

Preparation Guidelines

Preparation to be determined by the clinician or dietitian.

For a recommended preparation as a drink:

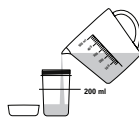
1

Empty 1 packet of S.O.S into a measuring cup with lid.
MAKE SURE TO USE FULL PACKET



2

Add the water to a final volume of 200 mL.



3

Secure lid and shake until the powder is dissolved.



4

S.O.S is now ready to use.
Any prepared product should be refrigerated and used within 24 hours.
Re-shake before use.

SINGLE DOSE AMINO ACIDS: DIRECTIONS FOR USE

Powdered Single Dose Amino Acids for use in the dietary management of inherited metabolic diseases of protein metabolism.

| Product | Amino acid dose | Packet size |
|------------------------|--------------------------|-------------|
| Arginine500 | 500 mg of L-Arginine | 4 g |
| Arginine2000 | 2000 mg of L-Arginine | 4 g |
| Citrulline200 | 200 mg of L-Citrulline | 4 g |
| Citrulline1000 | 1000 mg of L-Citrulline | 4 g |
| Creatine5000 | 5000 mg of Creatine | 6 g |
| Cystine500 | 500 mg of L-Cystine | 4 g |
| Glycine500 | 500 mg of L-Glycine | 4 g |
| Isoleucine50 | 50 mg of L-Isoleucine | 4 g |
| Isoleucine1000 | 1000 mg of L-Isoleucine | 4 g |
| Leucine100 | 100 mg of L-Leucine | 4 g |
| Methionine100 | 100 mg of L-Methionine | 4 g |
| Phenylalanine50 | 50 mg of L-Phenylalanine | 4 g |
| Tyrosine1000 | 1000 mg of L-Tyrosine | 4 g |
| Valine50 | 50 mg of L-Valine | 4 g |
| Valine1000 | 1000 mg of L-Valine | 4 g |

Dosage and Administration

To be determined by the clinician or dietician and is dependent on the age, body weight and medical condition of the patient.

Storage

Store in a cool dry place. Packets are designed for single use and should be used once opened.

Pack Size

30 x 4 g (0.14 oz) packets

Preparation Guidelines

To be determined by the clinician or dietician.

Important Notice

Must only be used under strict medical supervision.

Not for intravenous use.

For enteral use only (oral and tube feeding).

Not for use as a sole source of nutrition.

Single Dose Amino Acids

For more information on Single Dose Amino Acids, see pages 72–74

Preparation Guidelines

1 Measure out 2 fl oz (60 mL)* of water into a cup with a lid.

2 Add one packet.

3 Shake vigorously for 30 seconds.

4 Depending on the product, follow the relevant instructions below:

* 3 fl oz (90 mL) for Citrulline200 and Citrulline1000

| Creatine5000 Cystine500 Glycine500 Isoleucine50 Tyrosine1000 | Valine50 Valine1000 | Arginine500 Arginine2000 Citrulline200 Leucine100 Methionine100 Phenylalanine50 | Citrulline1000 Isoleucine1000 |
|---|---|--|---|
| Product is now ready to serve. If left to stand, re-shake before serving. | Wait 1 minute, shake and serve immediately. | Wait 5 minutes, shake and serve immediately. | Wait 10 minutes, shake and serve immediately. |

KIDNEY DISEASE: DIRECTIONS FOR USE



For more information on Renastart, see [page 77](#)

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on age, body weight and medical condition of the patient.

Important Notice

Must only be used under strict medical supervision.

Suitable from 1 year of age.

Not for intravenous use.

For enteral use only (tube or oral feeding).

Regular monitoring of nutritional status and electrolyte levels is required.

Not suitable for use as a sole source of nutrition.

Preparation Guidelines

Renastart is typically mixed with water. Preparation instructions are given by the dietitian or clinician.

The standard dilution of approximately 30 kcal/fl oz or 1 kcal/mL is made by adding 1 level scoop of Renastart (7 g) to 30 mL of water (1 fl oz). Use the scoop provided in the can or a gram scale for greatest accuracy.

Any prepared formula should be refrigerated and used within 24 hours. Re-shake before use.

Do not heat Renastart in a microwave as uneven heating may occur and could cause a burn. Do not boil Renastart.

Storage

Store in a cool dry place.

Once opened, Renastart powder must be tightly sealed and consumed within 4 weeks.

Pack Size

400 g (14.1 oz) can

Preparation Guidelines



1 Wash your hands and clean surfaces, utensils, and formula container.



2 Boil water and leave to cool for no more than 30 minutes to ensure it remains at a temperature of at least 158°F (70°C).



3 Measure out the required amount of water into the formula container. Do not use artificially softened water or repeatedly boiled water.



4 Using the scoop provided, add the prescribed number of scoops of Renastart to the water, leveling off each scoop with the back of a clean dry knife. Return dry scoop to Renastart can.



5 Seal formula container and shake well until powder is dissolved. Test the temperature before feeding. The formula should feel warm or cool, but not hot.



6 Renastart is now ready to use.

***Other dilutions and tube-feeding:** To be determined by the clinician or dietitian.



For more information on Renastep, see [page 79](#)

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight, and medical condition of the patient.

Important Notice

Must only be used under strict medical supervision.

Suitable from 1 year of age.

Not for intravenous use.

For enteral use only (tube and oral feeding).

Regular monitoring of nutritional status and electrolyte levels is required.

Not suitable for use as a sole source of nutrition.

Storage

Store in a cool dry place. Refrigerate before use if desired.

Once opened, seal cap and refrigerate.

Re-shake before use. Discard any opened, unused product after 6 hours if stored at room temperature or within 24 hours if refrigerated.

Pack Size

15 x 200 mL (6.7 fl oz) bottles

Preparation Guidelines



1 Shake well



2 Open



3 Drink

Shake well before use.
Best served chilled.

KETOGENIC DIET: DIRECTIONS FOR USE



For more information on K-Flo, see [page 83](#)

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the patient's age, body weight and medical condition/ketogenic diet regimen.

Important Notice

Must only be used under strict medical supervision.

Suitable from 3 years of age.

Not for intravenous use.

For enteral use only (tube and oral feeding).

Suitable for use as a sole source of nutrition.

Preparation Guidelines for Oral Use

Shake well before use.

Best served chilled.

Serving suggestions and recipes for K-Flo are available on request.

Tube Feeding Precautions

If using a tube feeding pump, do NOT shake the bottle before administration.

Addition of foods or medications to tube feeding formulas may lead to tube blockages.

Storage

Unopened: Store in a cool dry place.

Refrigerate before use if desired.

Once opened: Seal cap and refrigerate. Discard any opened, unused product after 6 hours if stored at room temperature or within 24 hours if refrigerated.

Pack Size

24 x 250 mL (8.45 fl oz) bottles

Preparation Guidelines



1 Shake well



2 Open



3 Drink

Shake well before use.
Best served chilled.



For more information on K-Quik, see [page 85](#)

Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight and medical condition of the patient.

Important Notice

Must only be used under strict medical supervision.

Suitable from 3 years of age.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Preparation Guidelines

Shake well before use.

Can be incorporated into food, beverages, or an enteral formula.

Best served chilled.

Serving suggestions and recipes for K-Quik are available on request.

Storage

Store in a cool dry place.

Once opened keep refrigerated and use within 48 hours.

Pack Size

15 x 225 mL (7.6 fl oz) bottles



Dosage and Administration

To be determined by the clinician or dietitian and is dependent on the age, body weight and medical condition of the patient.

Important Notice

Must only be used under strict medical supervision.

Suitable from 4 years of age.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

Storage

Store in a cool dry place.

Packets are designed for single use and it is recommended that contents are used immediately once opened.

If a smaller dose size is required any unused powder in an open packet should be stored in an airtight container or re-sealed with a clip and used within 24 hours.

The product should be freshly prepared and consumed immediately. However, if this is not possible, all prepared products must be tightly covered and consumed within 4 hours at room temperature or within 24 hours if refrigerated.

Re-shake product before use.

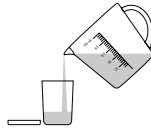
Pack Size

30 x 6 g (0.21 oz) packets

Preparation Guidelines

1

Add 60 mL (2 fl oz) of cold water into a cup with lid.



2

Empty contents of the packet into the cup. Secure the lid and shake well until powder is fully dissolved.



3

Drink immediately.



WEIGHTS & HOUSEHOLD MEASUREMENTS

| Product Name | Presentation | Displacement factor mL displaced by 1 gram powder | Product yield approximate final volume (L) | 1 level scoop approximate weight (g) | 1 teaspoon (g) | 1 tablespoon (g) | 1/4 cup (g) | 1/3 cup (g) | 1/2 cup (g) | 1 cup (g) |
|-------------------------|--|---|--|--------------------------------------|----------------|------------------|-------------|-------------|-------------|-----------|
| PKU trio | Powder, 400 g can | 0.55 mL/g | 1 can yields 1.62 | 16.5 | 3 | 9 | 36 | 48 | 72 | N/A |
| LIP1start | Powder, 400 g can | 0.83 mL/g | 1 can yields 2.8 | 5 | 2.4 | 7.5 | 30 | 40 | 63 | 122 |
| UCD trio | Powder, 400 g can | 0.4 mL/g | 1 can yields 2.7 | 16.5 | 3 | 9 | 36 | 48 | 72 | N/A |
| Renastart | Powder, 400 g can | 0.70 mL/g | 1 can yields 2 | 7 | 2.4 | 7.5 | 31 | 40 | 58 | 120 |
| explore5 & 10 | Powder, single serve packet, 5 or 10 g protein equivalent | 0.63 mL/g | – | – | – | – | – | – | – | – |
| gel | Powder, single serve packet, 10 g protein equivalent | 0.63 mL/g | – | – | – | – | – | – | – | – |
| sphere15 & 20 | Powder, single serve packet, 15 or 20 g protein equivalent | 0.57 mL/g | – | – | – | – | – | – | – | – |
| express plus15 & 20 | Powder, single serve packet, 15 or 20 g protein equivalent | 0.6 mL/g | – | – | – | – | – | – | – | – |
| MCTprocal | Powder, 16 g single serve packet | 0.8 mL/g | – | – | – | – | – | – | – | – |
| Glycosade | Powder, 60 g single serve packet | 0.6 mL/g | – | – | – | – | – | – | – | – |
| S.O.S | Powder, 52 g single serve packet | 0.8 mL/g | – | – | – | – | – | – | – | – |
| Single Dose Amino Acids | Powder, single serve packet | 0.8 mL/g | – | – | – | – | – | – | – | – |
| EAA | Powder, 12.5 g single serve packet, 5 g protein equivalent | 0.5 mL/g | – | – | – | – | – | – | – | – |

Important Note: Household measurements are for a level unpacked measure and are approximations. Measure is tapped to remove air pockets and leveled off using the back of a clean dry knife. Results can vary significantly based on the individual, device, and/or method. The values Vitaflor provides are based on averages derived from multiple measurements. Vitaflor recommends using a gram scale for greatest accuracy. The scoop Vitaflor provides has been validated with Vitaflor products, so using it is preferable to household measurements.



Vitaflo in Association
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