



# **Vitaflo™ USA Product Guide**



Enhancing Lives Together



**Vitaflo** is at the forefront of developing innovative specialized medical foods for Inherited Metabolic Diseases, Pediatric Kidney Disease, and the 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.



**Product Information**

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Vitaflo products are for use under medical supervision.

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Vitaflo products are for use under medical supervision.



Accessing formula can be challenging. Formula4Success is Vitaflo's personalized program offering free assistance to patients.\*

**Any**  
Health Insurance

**No**  
Health Insurance

**All**  
Financial Backgrounds

## Enrollment is simple.

- 1 Patients can complete the **enrollment form online** at **[www.Vitaflo4Success.com](http://www.Vitaflo4Success.com)**
- 2 Healthcare professionals can access the **Detailed Written Order (DWO)** and **Letter of Medical Necessity (LMN)** templates at **[www.Vitaflo4Success.com](http://www.Vitaflo4Success.com)**
- 3 The enrollment form, DWO and LMN can be submitted in one of the following ways:

**Fax:** 888-485-7193

**Email:** [Formula4Success@VitafloUSA.com](mailto:Formula4Success@VitafloUSA.com)

**Mail:** Vitaflo USA  
ATTN: Formula4Success  
PO Box 58569  
Raleigh, NC 27658



Enhancing Lives Together

Visit **[www.Vitaflo4Success.com](http://www.Vitaflo4Success.com)** or call **800-520-6112**

\*Patients that are prescribed select Vitaflo formulas are eligible to enroll in Formula4Success.

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## METABOLIC PRODUCTS





## 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

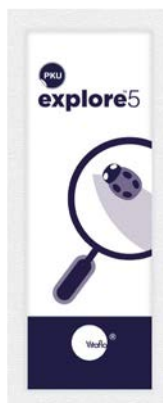
See page 95 for directions for use

### Ordering/Reimbursement Information

| Packaging                      | Reimbursement Code | HCPCS Code    |
|--------------------------------|--------------------|---------------|
| Unflavored 30 x 12.5 g packets | 50600-0246-51      | B4157 & B4162 |

**PKU explore5 (Unflavored) — 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, 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 Glycophosphate, 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.



### 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                    |
| <b>VITAMINS</b>            |         |           |                       |
| Vitamin A                  | µg RE   | 470       | 59                    |
| Vitamin D                  | µg      | 24        | 3.0                   |
| Vitamin E                  | mg α TE | 8.7       | 1.1                   |
| Vitamin C                  | mg      | 80        | 10                    |
| Vitamin K                  | µg      | 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                 | µg      | 200       | 25                    |
| Vitamin B12                | µg      | 3.3       | 0.41                  |
| Biotin                     | µg      | 21        | 2.6                   |
| Pantothenic acid           | mg      | 6.6       | 0.82                  |
| Choline                    | mg      | 405       | 51                    |
| <b>MINERALS</b>            |         |           |                       |
| 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                     | µg      | 134       | 17                    |
| Molybdenum                 | µg      | 36        | 4.5                   |
| Selenium                   | µg      | 28        | 3.5                   |
| Chromium                   | µg      | 27        | 3.4                   |
| <b>AMINO ACIDS</b>         |         |           |                       |
| L-Alanine                  | g       | 1.71      | 0.21                  |
| L-Arginine                 | g       | 2.76      | 0.35                  |
| L-Aspartic acid            | g       | 4.58      | 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.



**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 95 for directions for use

| Ordering/Reimbursement Information |                   |                    |               |
|------------------------------------|-------------------|--------------------|---------------|
|                                    | Packaging         | Reimbursement Code | HCPCS Code    |
| Raspberry                          | 30 x 25 g packets | 50600-0246-75      | B4157 & B4162 |
| Orange                             | 30 x 25 g packets | 50600-0246-68      | B4157 & B4162 |

**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 available at [www.VitaFloUSA.com](http://www.VitaFloUSA.com)

\*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                  |
| <b>VITAMINS</b>                     |         |           |                     |
| Vitamin A                           | µg RE   | 470       | 117                 |
| Vitamin D                           | µg      | 24        | 6.0                 |
| Vitamin E                           | mg α TE | 8.7       | 2.2                 |
| Vitamin C                           | mg      | 80        | 20                  |
| Vitamin K                           | µg      | 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                          | µg      | 200       | 50                  |
| Vitamin B12                         | µg      | 3.3       | 0.82                |
| Biotin                              | µg      | 21        | 5.2                 |
| Pantothenic acid                    | mg      | 6.6       | 1.6                 |
| Choline                             | mg      | 405       | 101                 |
| <b>MINERALS</b>                     |         |           |                     |
| 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                              | µg      | 134       | 33                  |
| Molybdenum                          | µg      | 3.6       | 0.90                |
| Selenium                            | µg      | 28        | 7.0                 |
| Chromium                            | µg      | 27        | 6.7                 |
| <b>AMINO ACIDS</b>                  |         |           |                     |
| 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.



**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 96 for directions for use

### Ordering/Reimbursement Information

|            | Packaging | Reimbursement Code | HCPCS Code    |
|------------|-----------|--------------------|---------------|
| Unflavored | 400 g can | 50600-0518-06      | B4157 & B4162 |
| Vanilla    | 400 g can | 50600-0518-13      | B4157 & B4162 |

**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 L-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 available at [www.VitaFloUSA.com](http://www.VitaFloUSA.com)

\*A source of docosahexaenoic acid (DHA).

### PKU trio Nutrition Information

|                    |         | Unflavored |                      | Flavored  |                      |
|--------------------|---------|------------|----------------------|-----------|----------------------|
|                    | Units   | 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                  |
| <b>VITAMINS</b>    |         |            |                      |           |                      |
| Vitamin A          | µg RE   | 416        | 68.6                 | 416       | 68.6                 |
| Vitamin D          | µg      | 15         | 2.5                  | 15        | 2.5                  |
| Vitamin E          | mg a TE | 7.8        | 1.3                  | 7.8       | 1.3                  |
| Vitamin C          | mg      | 54         | 8.9                  | 54        | 8.9                  |
| Vitamin K          | µg      | 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         | µg      | 280        | 46.2                 | 280       | 46.2                 |
| Vitamin B12        | µg      | 2.4        | 0.40                 | 2.4       | 0.40                 |
| Biotin             | µg      | 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                  |
| <b>MINERALS</b>    |         |            |                      |           |                      |
| 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             | µg      | 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             | µg      | 126        | 20.8                 | 126       | 20.8                 |
| Molybdenum         | µg      | 72         | 11.9                 | 72        | 11.9                 |
| Selenium           | µg      | 38         | 6.3                  | 38        | 6.3                  |
| Chromium           | µg      | 44         | 7.3                  | 44        | 7.3                  |
| <b>AMINO ACIDS</b> |         |            |                      |           |                      |
| 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.



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

**Features**

- Suitable from 1 year of age
- A blend of glycomacropeptide (GMP), essential and non-essential amino acids, carbohydrate, fat (including docosahexaenoic acid – DHA), vitamins and minerals
- 1 bottle provides 20 g protein equivalent from GMP and amino acids
- Available in Vanilla flavor

\*Each bottle of PKU sphere20 liquid contains 36 mg of phenylalanine.

**Osmolality**

510 mOsm/kg

See page 98 for directions for use

| Ordering/Reimbursement Information |                    |               |  |
|------------------------------------|--------------------|---------------|--|
| Packaging                          | Reimbursement Code | HCPCS Code    |  |
| Vanilla 8 fl oz (237 ml)           | 12539-0248-04      | B4157 & B4162 |  |

**PKU sphere liquid (Vanilla) – Ingredients:** Water, Whey protein isolate (milk), Sugar, Natural and artificial flavor, L-leucine, L-tyrosine, L-arginine, Calcium lactate, Magnesium phosphate, Calcium phosphate, Soy lecithin, L-histidine, Cellulose gel and gum, Choline bitartrate, Glycine, L-tryptophan, L-lysine L-aspartate, C. cohnii oil\*\*, L-cystine, Ascorbic acid, Maltodextrin, High oleic sunflower oil, Ferrous sulfate, Sucralose, L-methionine, DL-alpha tocopheryl acetate, Zinc sulfate, Potassium iodide, Sodium selenite, Sodium molybdate, Vitamin A acetate, Copper gluconate, Niacinamide, Manganese gluconate, Calcium pantothenate, Vitamin K1, Vitamin D3, Biotin, Folic acid, Thiamine hydrochloride, Pyridoxine hydrochloride, Riboflavin, Chromium chloride, Vitamin B12, Ascorbyl palmitate (preservative), Tocopherols (preservative).

**Contains:** Milk and Soy.

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



**PKU sphere20 liquid Nutrition Information**

|                            | Units   | per 100 ml | per 237 ml (1 bottle) |
|----------------------------|---------|------------|-----------------------|
| Calories                   | kcal    | 50         | 120                   |
| Protein Equivalent         | g       | 8.3        | 20                    |
| Total Carbohydrate         | g       | 2.8        | 6.6                   |
| Sugars                     | g       | 1.8        | 4.3                   |
| Total Fat                  | g       | 0.5        | 1.2                   |
| Saturated Fat              | g       | 0          | 0                     |
| Docosahexaenoic Acid (DHA) | mg      | 46         | 109                   |
| <b>VITAMINS</b>            |         |            |                       |
| Vitamin A                  | µg RE   | 110        | 261                   |
| Vitamin D                  | µg      | 2.1        | 5.0                   |
| Vitamin E                  | mg α TE | 1.6        | 3.8                   |
| Vitamin C                  | mg      | 9.2        | 22                    |
| Vitamin K                  | µg      | 9.7        | 23                    |
| Thiamin                    | mg      | 0.25       | 0.59                  |
| Riboflavin                 | mg      | 0.25       | 0.59                  |
| Niacin                     | mg      | 1.4        | 3.3                   |
| Vitamin B6                 | mg      | 0.21       | 0.50                  |
| Folic Acid                 | µg      | 43         | 102                   |
| Vitamin B12                | µg      | 0.68       | 1.6                   |
| Pantothenic acid           | mg      | 0.84       | 2.0                   |
| Biotin                     | µg      | 5.5        | 13                    |
| Choline                    | mg      | 84         | 199                   |
| <b>MINERALS</b>            |         |            |                       |
| Sodium                     | mg      | 120        | 284                   |
| Potassium                  | mg      | 100        | 237                   |
| Chloride                   | mg      | 0          | 0                     |
| Calcium                    | mg      | 170        | 403                   |
| Phosphorus                 | mg      | 170        | 403                   |
| Magnesium                  | mg      | 50         | 118                   |
| Iron                       | mg      | 3.1        | 7.3                   |
| Copper                     | mg      | 0.25       | 0.59                  |
| Zinc                       | mg      | 2.8        | 6.6                   |
| Manganese                  | mg      | 0.17       | 0.40                  |
| Iodine                     | µg      | 35         | 83                    |
| Molybdenum                 | µg      | 8.4        | 20                    |
| Selenium                   | µg      | 13         | 31                    |
| Chromium                   | µg      | 5.1        | 12                    |
| <b>AMINO ACIDS</b>         |         |            |                       |
| L-Alanine                  | g       | 0.35       | 0.83                  |
| L-Arginine                 | g       | 0.41       | 0.97                  |
| L-Aspartic acid            | g       | 0.55       | 1.30                  |
| L-Cystine                  | g       | 0.10       | 0.24                  |
| L-Glutamine                | g       | 1.14       | 2.70                  |
| Glycine                    | g       | 0.30       | 0.71                  |
| L-Histidine                | g       | 0.30       | 0.71                  |
| L-Isoleucine               | g       | 0.60       | 1.42                  |
| L-Leucine                  | g       | 1.27       | 3.01                  |
| L-Lysine                   | g       | 0.40       | 0.95                  |
| L-Methionine               | g       | 0.12       | 0.28                  |
| L-Phenylalanine            | mg      | 15         | 36                    |
| L-Proline                  | g       | 0.68       | 1.61                  |
| L-Serine                   | g       | 0.43       | 1.02                  |
| L-Threonine                | g       | 0.97       | 2.30                  |
| L-Tryptophan               | g       | 0.17       | 0.40                  |
| L-Tyrosine                 | g       | 0.95       | 2.25                  |
| L-Valine                   | g       | 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 glycomacropeptide (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 28 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 99 for directions for use

### Ordering/Reimbursement Information

|           | Packaging         | Reimbursement Code | HCPCS Code    |
|-----------|-------------------|--------------------|---------------|
| Vanilla   | 30 x 27 g packets | 50600-0214-38      | B4162 & B4157 |
| Red Berry | 30 x 27 g packets | 50600-0211-31      | B4162 & B4157 |

**PKU sphere15 (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 available at [www.VitaFloUSA.com](http://www.VitaFloUSA.com)

### 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                  |
| <b>VITAMINS</b>            |         |           |                     |
| Vitamin A                  | µg RE   | 690       | 186                 |
| Vitamin D                  | µg      | 12        | 3.2                 |
| Vitamin E                  | mg α TE | 14        | 3.8                 |
| Vitamin C                  | mg      | 65        | 17                  |
| Vitamin K                  | µg      | 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                 | µg      | 260       | 70                  |
| Vitamin B12                | µg      | 4.1       | 1.1                 |
| Biotin                     | µg      | 32        | 8.6                 |
| Pantothenic acid           | mg      | 5.1       | 1.4                 |
| Choline                    | mg      | 510       | 138                 |
| <b>MINERALS</b>            |         |           |                     |
| 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                     | µg      | 210       | 57                  |
| Molybdenum                 | µg      | 51        | 14                  |
| Selenium                   | µg      | 76        | 20                  |
| Chromium                   | µg      | 30        | 8.1                 |
| <b>AMINO ACIDS</b>         |         |           |                     |
| 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      | 104       | 28                  |
| 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 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 Vanilla, Red Berry, and Chocolate flavors

\*Each packet of PKU sphere20 contains 36 mg of phenylalanine.

### Osmolality

Vanilla: 35 g (1 packet) + 120 ml (4 fl oz) water = 850 mOsm/kg

Red Berry: 35 g (1 packet) + 120 ml (4 fl oz) water = 900 mOsm/kg

Chocolate: 35 g (1 packet) + 120 ml (4 fl oz) water = 800 mOsm/kg

See page 99 for directions for use

### Ordering/Reimbursement Information

|           | Packaging         | Reimbursement Code | HCPSC Code    |
|-----------|-------------------|--------------------|---------------|
| Vanilla   | 30 x 35 g packets | 50600-0211-24      | B4162 & B4157 |
| Red Berry | 30 x 35 g packets | 50600-0211-17      | B4162 & B4157 |
| Chocolate | 30 x 35 g packets | 50600-0220-53      | B4162 & B4157 |

**PKU sphere (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 available at [www.VitaflorUSA.com](http://www.VitaflorUSA.com)



### PKU sphere20 Nutrition Information

|                            | Units   | per 100 g<br>Vanilla/<br>Red Berry | per 35 g<br>(1 packet)<br>Vanilla/Red Berry | per 100 g<br>Chocolate | per 35 g<br>(1 packet)<br>Chocolate |
|----------------------------|---------|------------------------------------|---------------------------------------------|------------------------|-------------------------------------|
| Calories                   | kcal    | 340                                | 120                                         | 340                    | 120                                 |
| Protein equivalent         | g       | 56                                 | 20                                          | 56                     | 20                                  |
| Total Carbohydrate         | g       | 18                                 | 6.3                                         | 18                     | 6.3                                 |
| Sugars                     | g       | 7.0                                | 2.5                                         | 8.5                    | 3.0                                 |
| Total Fat                  | g       | 4.5                                | 1.6                                         | 4.5                    | 1.6                                 |
| Saturated Fat              | g       | 1.0                                | 0.4                                         | 1.0                    | 0.4                                 |
| Docosahexaenoic Acid (DHA) | mg      | 314                                | 110                                         | 314                    | 110                                 |
| <b>VITAMINS</b>            |         |                                    |                                             |                        |                                     |
| Vitamin A                  | µg RE   | 690                                | 241                                         | 690                    | 241                                 |
| Vitamin D                  | µg      | 12                                 | 4.2                                         | 12                     | 4.2                                 |
| Vitamin E                  | mg α TE | 14                                 | 4.9                                         | 14                     | 4.9                                 |
| Vitamin C                  | mg      | 65                                 | 23                                          | 65                     | 23                                  |
| Vitamin K                  | µg      | 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                 | µg      | 260                                | 91                                          | 260                    | 91                                  |
| Vitamin B12                | µg      | 4.1                                | 1.4                                         | 4.1                    | 1.4                                 |
| Biotin                     | µg      | 32                                 | 11                                          | 32                     | 11                                  |
| Pantothenic acid           | mg      | 5.1                                | 1.8                                         | 5.1                    | 1.8                                 |
| Choline                    | mg      | 510                                | 178                                         | 510                    | 178                                 |
| <b>MINERALS</b>            |         |                                    |                                             |                        |                                     |
| 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                                 | 6.6                                         | 19                     | 6.6                                 |
| Copper                     | mg      | 1.5                                | 0.52                                        | 1.5                    | 0.52                                |
| Zinc                       | mg      | 19                                 | 6.6                                         | 19                     | 6.6                                 |
| Manganese                  | mg      | 1.0                                | 0.35                                        | 1.0                    | 0.35                                |
| Iodine                     | µg      | 210                                | 74                                          | 210                    | 74                                  |
| Molybdenum                 | µg      | 51                                 | 18                                          | 51                     | 18                                  |
| Selenium                   | µg      | 76                                 | 27                                          | 76                     | 27                                  |
| Chromium                   | µg      | 30                                 | 10                                          | 30                     | 10                                  |
| <b>AMINO ACIDS</b>         |         |                                    |                                             |                        |                                     |
| L-Alanine                  | g       | 2.36                               | 0.83                                        | 2.36                   | 0.83                                |
| L-Arginine                 | g       | 2.73                               | 0.96                                        | 2.73                   | 0.96                                |
| L-Aspartic acid            | g       | 3.73                               | 1.31                                        | 3.73                   | 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       | 2.02                               | 0.71                                        | 2.02                   | 0.71                                |
| 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       | 2.72                               | 0.95                                        | 2.72                   | 0.95                                |
| L-Methionine               | g       | 0.80                               | 0.28                                        | 0.80                   | 0.28                                |
| L-Phenylalanine            | mg      | 104                                | 36                                          | 104                    | 36                                  |
| 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                 | g       | 6.43                               | 2.25                                        | 6.43                   | 2.25                                |
| L-Valine                   | g       | 3.27                               | 1.14                                        | 3.27                   | 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, 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, Orange, Lemon, and Tropical flavors

### Osmolality

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

See page 100 for directions for use

### Ordering/Reimbursement Information

|            | Packaging         | Reimbursement Code | HCPCS Code    |
|------------|-------------------|--------------------|---------------|
| Unflavored | 30 x 25 g packets | 50600-0532-06      | B4162 & B4157 |
| Orange     | 30 x 25 g packets | 50600-0532-20      | B4162 & B4157 |
| Lemon      | 30 x 25 g packets | 50600-0533-05      | B4162 & B4157 |
| Tropical   | 30 x 25 g packets | 50600-0533-36      | B4162 & B4157 |

**PKU express15 (Unflavored) — Ingredients:** Dried Glucose Syrup, L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, L-Valine, L-Glutamine, L-Proline, L-Threonine, L-Isoleucine, Calcium Phosphate, L-Serine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Alanine, L-Histidine, Choline Bitartrate, L-Cystine, L-Tryptophan, L-Methionine, Salt, L-Arginine, Maltodextrin, 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.

Flavored versions contain sweetener.

Ingredient lists for all flavored options available at [www.VitaflaUSA.com](http://www.VitaflaUSA.com)



| PKU express15 Nutrition Information |         |            |                     |           |                     |
|-------------------------------------|---------|------------|---------------------|-----------|---------------------|
|                                     |         | Unflavored |                     | Flavored  |                     |
|                                     | Units   | per 100 g  | per 25 g (1 packet) | per 100 g | per 25 g (1 packet) |
| Calories                            | kcal    | 297        | 74                  | 281       | 70                  |
| Protein equivalent                  | g       | 60         | 15                  | 60        | 15                  |
| Total Carbohydrate                  | g       | 13.7       | 3.4                 | 9.7       | 2.4                 |
| Sugars                              | g       | 1.0        | 0.2                 | 3.6       | 0.9                 |
| Total Fat                           | g       | 0.20       | 0.05                | 0.20      | 0.05                |
| Saturated Fat                       | g       | 0          | 0                   | 0         | 0                   |
| <b>VITAMINS</b>                     |         |            |                     |           |                     |
| Vitamin A                           | µg RE   | 740        | 185                 | 740       | 185                 |
| Vitamin D                           | µg      | 11.7       | 2.9                 | 11.7      | 2.9                 |
| Vitamin E                           | mg α TE | 14         | 3.5                 | 14        | 3.5                 |
| Vitamin C                           | mg      | 96         | 24                  | 96        | 24                  |
| Vitamin K                           | µg      | 89         | 22                  | 89        | 22                  |
| Thiamin                             | mg      | 1.8        | 0.45                | 1.8       | 0.45                |
| Riboflavin                          | mg      | 2.0        | 0.50                | 2.0       | 0.50                |
| Niacin                              | mg      | 22         | 5.5                 | 22        | 5.5                 |
| Vitamin B6                          | mg      | 2.5        | 0.63                | 2.5       | 0.63                |
| Folic acid                          | µg      | 360        | 90                  | 360       | 90                  |
| Vitamin B12                         | µg      | 4.3        | 1.1                 | 4.3       | 1.1                 |
| Biotin                              | µg      | 170        | 43                  | 170       | 43                  |
| Pantothenic acid                    | mg      | 7.1        | 1.8                 | 7.1       | 1.8                 |
| Choline                             | mg      | 530        | 133                 | 530       | 133                 |
| <b>MINERALS</b>                     |         |            |                     |           |                     |
| Sodium                              | mg      | 510        | 128                 | 450       | 113                 |
| Potassium                           | mg      | 840        | 210                 | 840       | 210                 |
| Chloride                            | mg      | 650        | 163                 | 650       | 163                 |
| Calcium                             | mg      | 1090       | 273                 | 1090      | 273                 |
| Phosphorus                          | mg      | 990        | 248                 | 990       | 248                 |
| Magnesium                           | mg      | 330        | 83                  | 330       | 83                  |
| Iron                                | mg      | 19         | 4.8                 | 19        | 4.8                 |
| Copper                              | mg      | 2.0        | 0.50                | 2.0       | 0.50                |
| Zinc                                | mg      | 19         | 4.8                 | 19        | 4.8                 |
| Manganese                           | mg      | 2.8        | 0.70                | 2.8       | 0.70                |
| Iodine                              | µg      | 220        | 55                  | 220       | 55                  |
| Molybdenum                          | µg      | 130        | 33                  | 130       | 33                  |
| Selenium                            | µg      | 78         | 20                  | 78        | 20                  |
| Chromium                            | µg      | 78         | 20                  | 78        | 20                  |
| <b>AMINO ACIDS</b>                  |         |            |                     |           |                     |
| 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       | 5.12       | 1.28                | 5.12      | 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       | 4.67       | 1.17                | 4.67      | 1.17                |
| L-Serine                            | g       | 2.91       | 0.73                | 2.91      | 0.73                |
| L-Threonine                         | g       | 4.54       | 1.14                | 4.54      | 1.14                |
| L-Tryptophan                        | g       | 1.40       | 0.35                | 1.40      | 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      | 64         | 16                  | 64        | 16                  |
| Taurine                             | mg      | 132        | 33                  | 132       | 33                  |

\*No added phenylalanine.



**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, vitamins and minerals
- 1 packet provides 20 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored, Orange, Lemon, and Tropical flavors

#### Osmolality

34 g (1 packet) + 80 ml (2.7 fl oz) water = 2380 mOsm/kg

See page 100 for directions for use



#### Ordering/Reimbursement Information

|            | Packaging         | Reimbursement Code | HCPCS Code    |
|------------|-------------------|--------------------|---------------|
| Unflavored | 30 x 34 g packets | 50600-0516-39      | B4162 & B4157 |
| Orange     | 30 x 34 g packets | 50600-0517-69      | B4162 & B4157 |
| Lemon      | 30 x 34 g packets | 50600-0517-76      | B4162 & B4157 |
| Tropical   | 30 x 34 g packets | 50600-0517-83      | B4162 & B4157 |

**PKU express20 (Unflavored) — Ingredients:** Dried Glucose Syrup, L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, L-Arginine L-Aspartate, L-Valine, L-Glutamine, L-Proline, L-Threonine, L-Isoleucine, Calcium Phosphate, L-Serine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Alanine, L-Histidine, Choline Bitartrate, L-Cystine, L-Tryptophan, L-Methionine, Salt, L-Arginine, Maltodextrin, 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.

Flavored versions contain sweetener.

Ingredient lists for all flavored options available at [www.VitafoUSA.com](http://www.VitafoUSA.com)

#### PKU express20 Nutrition Information

|                    | Units   | Unflavored |                     | Flavored  |                     |
|--------------------|---------|------------|---------------------|-----------|---------------------|
|                    |         | per 100 g  | per 34 g (1 packet) | per 100 g | per 34 g (1 packet) |
| Calories           | kcal    | 297        | 101                 | 281       | 95                  |
| Protein equivalent | g       | 60         | 20                  | 60        | 20                  |
| Total Carbohydrate | g       | 13.7       | 4.7                 | 9.7       | 3.3                 |
| Sugars             | g       | 1.0        | 0.3                 | 3.6       | 1.2                 |
| Total Fat          | g       | 0.20       | 0.07                | 0.20      | 0.07                |
| Saturated Fat      | g       | 0          | 0                   | 0         | 0                   |
| <b>VITAMINS</b>    |         |            |                     |           |                     |
| Vitamin A          | µg RE   | 740        | 252                 | 740       | 252                 |
| Vitamin D          | µg      | 11.7       | 4.0                 | 11.7      | 4.0                 |
| Vitamin E          | mg α TE | 14         | 4.7                 | 14        | 4.7                 |
| Vitamin C          | mg      | 96         | 33                  | 96        | 33                  |
| Vitamin K          | µg      | 89         | 30                  | 89        | 30                  |
| Thiamin            | mg      | 1.8        | 0.61                | 1.8       | 0.61                |
| Riboflavin         | mg      | 2.0        | 0.68                | 2.0       | 0.68                |
| Niacin             | mg      | 22         | 7.5                 | 22        | 7.5                 |
| Vitamin B6         | mg      | 2.5        | 0.85                | 2.5       | 0.85                |
| Folic acid         | µg      | 360        | 122                 | 360       | 122                 |
| Vitamin B12        | µg      | 4.3        | 1.5                 | 4.3       | 1.5                 |
| Biotin             | µg      | 170        | 58                  | 170       | 58                  |
| Pantothenic acid   | mg      | 7.1        | 2.4                 | 7.1       | 2.4                 |
| Choline            | mg      | 530        | 180                 | 530       | 180                 |
| <b>MINERALS</b>    |         |            |                     |           |                     |
| Sodium             | mg      | 510        | 173                 | 450       | 153                 |
| Potassium          | mg      | 840        | 286                 | 840       | 286                 |
| Chloride           | mg      | 650        | 221                 | 650       | 221                 |
| Calcium            | mg      | 1090       | 371                 | 1090      | 371                 |
| Phosphorus         | mg      | 990        | 337                 | 990       | 337                 |
| Magnesium          | mg      | 330        | 112                 | 330       | 112                 |
| Iron               | mg      | 19         | 6.5                 | 19        | 6.5                 |
| Copper             | mg      | 2.0        | 0.68                | 2.0       | 0.68                |
| Zinc               | mg      | 19         | 6.5                 | 19        | 6.5                 |
| Manganese          | mg      | 2.8        | 0.95                | 2.8       | 0.95                |
| Iodine             | µg      | 220        | 75                  | 220       | 75                  |
| Molybdenum         | µg      | 130        | 44                  | 130       | 44                  |
| Selenium           | µg      | 78         | 27                  | 78        | 27                  |
| Chromium           | µg      | 78         | 27                  | 78        | 27                  |
| <b>AMINO ACIDS</b> |         |            |                     |           |                     |
| 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       | 5.12       | 1.73                | 5.12      | 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       | 4.67       | 1.59                | 4.67      | 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       | 1.40       | 0.48                | 1.40      | 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      | 64         | 22                  | 64        | 22                  |
| Taurine            | mg      | 132        | 45                  | 132       | 45                  |

\*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 10 g protein equivalent
- Available in Orange, Purple, White, and Red flavors

### Osmolality

1550 mOsm/kg

See page 101 for directions for use

| Ordering/Reimbursement Information |                    |                    |               |
|------------------------------------|--------------------|--------------------|---------------|
|                                    | Packaging          | Reimbursement Code | HCPCS Code    |
| Orange                             | 30 x 87 ml pouches | 50600-0548-52      | B4162 & B4157 |
| Purple                             | 30 x 87 ml pouches | 50600-0548-76      | B4162 & B4157 |
| White                              | 30 x 87 ml pouches | 50600-0549-99      | B4162 & B4157 |
| Red                                | 30 x 87 ml pouches | 50600-0513-18      | B4162 & B4157 |

**PKU cooler10 (Red) – Ingredients:** Water, Sugar, 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, Glucose Syrup, Magnesium Phosphate, Refined Tuna Oil (Fish), L-Cystine, Choline Bitartrate, Potassium Citrate, L-Tryptophan, L-Methionine, L-Arginine, 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 available at [www.VitaFloUSA.com](http://www.VitaFloUSA.com)



### PKU cooler10 Nutrition Information

|                            | Units   | per 100 ml | per 87 ml (1 pouch) |
|----------------------------|---------|------------|---------------------|
| Calories                   | kcal    | 75         | 65                  |
| 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                  |
| <b>VITAMINS</b>            |         |            |                     |
| Vitamin A                  | µg RE   | 133        | 116                 |
| Vitamin D                  | µg      | 5.1        | 4.4                 |
| Vitamin E                  | mg α TE | 2.7        | 2.3                 |
| Vitamin C                  | mg      | 19         | 17                  |
| Vitamin K                  | µg      | 12         | 10                  |
| Thiamin                    | mg      | 0.35       | 0.30                |
| Riboflavin                 | mg      | 0.39       | 0.34                |
| Niacin                     | mg      | 1.8        | 1.6                 |
| Vitamin B6                 | mg      | 0.44       | 0.38                |
| Folic acid                 | µg      | 51         | 44                  |
| Vitamin B12                | µg      | 0.82       | 0.71                |
| Biotin                     | µg      | 6.7        | 5.8                 |
| Pantothenic acid           | mg      | 0.98       | 0.85                |
| Choline                    | mg      | 102        | 89                  |
| <b>MINERALS</b>            |         |            |                     |
| Sodium                     | mg      | 60         | 52                  |
| Potassium                  | mg      | 124        | 108                 |
| Chloride                   | mg      | 71         | 62                  |
| Calcium                    | mg      | 210        | 183                 |
| Phosphorus                 | mg      | 190        | 165                 |
| Magnesium                  | mg      | 60         | 52                  |
| Iron                       | mg      | 3.7        | 3.2                 |
| Copper                     | mg      | 0.37       | 0.32                |
| Zinc                       | mg      | 2.8        | 2.4                 |
| Manganese                  | mg      | 0.25       | 0.22                |
| Iodine                     | µg      | 45         | 39                  |
| Molybdenum                 | µg      | 11         | 10                  |
| Selenium                   | µg      | 13         | 11                  |
| Chromium                   | µg      | 7.1        | 6.2                 |
| <b>AMINO ACIDS</b>         |         |            |                     |
| 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.



# cooler<sup>15</sup>

**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, White, and Red flavors

## Osmolality

1550 mOsm/kg

See page 101 for directions for use

| Ordering/Reimbursement Information |                     |                    |               |
|------------------------------------|---------------------|--------------------|---------------|
|                                    | Packaging           | Reimbursement Code | HCPCS Code    |
| Orange                             | 30 x 130 ml pouches | 50600-0545-00      | B4162 & B4157 |
| Purple                             | 30 x 130 ml pouches | 50600-0545-62      | B4162 & B4157 |
| White                              | 30 x 130 ml pouches | 50600-0549-75      | B4162 & B4157 |
| Red                                | 30 x 130 ml pouches | 50600-0519-98      | B4162 & B4157 |

**PKU cooler<sup>15</sup> (Red) — Ingredients:** Water, Sugar, 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, Glucose Syrup, Magnesium Phosphate, Refined Tuna Oil (Fish), L-Cystine, Choline Bitartrate, Potassium Citrate, L-Tryptophan, L-Methionine, L-Arginine, 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 available at [www.VitaFloUSA.com](http://www.VitaFloUSA.com)



## PKU cooler<sup>15</sup> 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                  |
| <b>VITAMINS</b>            |         |            |                      |
| Vitamin A                  | µg RE   | 133        | 173                  |
| Vitamin D                  | µg      | 5.1        | 6.6                  |
| Vitamin E                  | mg α TE | 2.7        | 3.5                  |
| Vitamin C                  | mg      | 19         | 25                   |
| Vitamin K                  | µg      | 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                 | µg      | 51         | 66                   |
| Vitamin B12                | µg      | 0.82       | 1.1                  |
| Biotin                     | µg      | 6.7        | 8.7                  |
| Pantothenic acid           | mg      | 0.98       | 1.3                  |
| Choline                    | mg      | 102        | 133                  |
| <b>MINERALS</b>            |         |            |                      |
| 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                     | µg      | 45         | 59                   |
| Molybdenum                 | µg      | 11         | 14                   |
| Selenium                   | µg      | 13         | 17                   |
| Chromium                   | µg      | 7.1        | 9.2                  |
| <b>AMINO ACIDS</b>         |         |            |                      |
| 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, White, and Red flavors

#### Osmolality

1550 mOsm/kg

See page 101 for directions for use

| Ordering/Reimbursement Information |                     |                    |               |
|------------------------------------|---------------------|--------------------|---------------|
|                                    | Packaging           | Reimbursement Code | HCPCS Code    |
| Orange                             | 30 x 174 ml pouches | 50600-0548-14      | B4162 & B4157 |
| Purple                             | 30 x 174 ml pouches | 50600-0548-38      | B4162 & B4157 |
| White                              | 30 x 174 ml pouches | 50600-0550-19      | B4162 & B4157 |
| Red                                | 30 x 174 ml pouches | 50600-0520-01      | B4162 & B4157 |

**PKU cooler20 (Red) — Ingredients:** Water, Sugar, 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, Glucose Syrup, Magnesium Phosphate, Refined Tuna Oil (Fish), L-Cystine, Choline Bitartrate, Potassium Citrate, L-Tryptophan, L-Methionine, L-Arginine, 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 available at [www.VitaFloUSA.com](http://www.VitaFloUSA.com)



#### PKU cooler20 Nutrition Information

|                            | Units   | per 100 ml | per 174 ml (1 pouch) |
|----------------------------|---------|------------|----------------------|
| Calories                   | kcal    | 75         | 130                  |
| 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                  |
| <b>VITAMINS</b>            |         |            |                      |
| Vitamin A                  | µg RE   | 133        | 231                  |
| Vitamin D                  | µg      | 5.1        | 8.9                  |
| Vitamin E                  | mg a 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        | 11.6                 |
| Pantothenic acid           | mg      | 0.98       | 1.7                  |
| Choline                    | mg      | 102        | 178                  |
| <b>MINERALS</b>            |         |            |                      |
| Sodium                     | mg      | 60         | 104                  |
| 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                   |
| <b>AMINO ACIDS</b>         |         |            |                      |
| 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 102 for directions for use

| Ordering/Reimbursement Information |                     |                    |               |
|------------------------------------|---------------------|--------------------|---------------|
|                                    | Packaging           | Reimbursement Code | HCPCS Code    |
| Gold                               | 30 x 174 ml pouches | 50600-0216-98      | B4162 & B4157 |
| Green                              | 30 x 174 ml pouches | 50600-0217-04      | B4162 & B4157 |
| Yellow                             | 30 x 174 ml pouches | 50600-0217-11      | B4162 & B4157 |

**PKU air (Yellow) — Ingredients:** Water, L-Lysine L-Aspartate, L-Leucine, L-Tyrosine, Glycine, Malic Acid, 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, Glucose Syrup Solids, Magnesium Hydrogen Phosphate, Refined Tuna Oil (Fish), L-Cystine, Choline Bitartrate, Potassium Citrate, L-Tryptophan, Natural and Artificial Flavor, L-Methionine, L-Arginine, L-Ascorbic Acid, Salt, Maltodextrin, Xanthan Gum, Acesulfame Potassium, Beta Carotene (Color), Zinc Gluconate, Taurine, Sucralose, Potassium Sorbate (Preservative), L-Carnitine L-Tartrate, Sodium Benzoate (Preservative), Iron Sulfate, Copper Gluconate, Manganese Gluconate, Nicotinamide, Vitamin E Acetate, Sodium Selenite, Calcium Panthothenate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Chromium Chloride, Sodium Molybdate, Folic Acid, Potassium Iodide, Biotin, Vitamin K, Vitamin D, Vitamin B12.

**Contains:** Fish (tuna) and Soy.

Ingredient lists for all flavored options available at [www.VitaFloUSA.com](http://www.VitaFloUSA.com)



### PKU air20 Nutrition Information

|                            | Units   | per 100 ml | per 174 ml (1 pouch) |
|----------------------------|---------|------------|----------------------|
| Calories                   | kcal    | 57         | 100                  |
| 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      | 68         | 118                  |
| <b>VITAMINS</b>            |         |            |                      |
| Vitamin A                  | µg RE   | 130        | 226                  |
| Vitamin D                  | µg      | 5.1        | 8.9                  |
| Vitamin E                  | mg α TE | 2.7        | 4.7                  |
| Vitamin C                  | mg      | 19         | 33                   |
| Vitamin K                  | µg      | 12         | 22                   |
| Thiamin                    | mg      | 0.36       | 0.63                 |
| 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                  |
| <b>MINERALS</b>            |         |            |                      |
| Sodium                     | mg      | 60         | 104                  |
| Potassium                  | mg      | 120        | 209                  |
| Chloride                   | mg      | 70         | 122                  |
| 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      | 0.26       | 0.45                 |
| Iodine                     | µg      | 45         | 78                   |
| Molybdenum                 | µg      | 11         | 19                   |
| Selenium                   | µg      | 13         | 23                   |
| Chromium                   | µg      | 7.1        | 12                   |
| <b>AMINO ACIDS</b>         |         |            |                      |
| 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 powdered leucine-, isoleucine-, and valine-free medical food for use in the dietary management of Maple Syrup Urine Disease.**

#### Features

- Suitable from 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 10 g protein equivalent
- Designed to be mixed with water or other permitted beverages into a gel/paste or low volume drink
- Available in Unflavored



#### Osmolality

24 g (1 packet) + 30 ml (1 fl oz) water = 3000 mOsm/kg

24 g (1 packet) + 80 ml (2.7 fl oz) water = 1540 mOsm/kg

See page 97 for directions for use

#### Ordering/Reimbursement Information

| Packaging                    | Reimbursement Code | HCPCS Code |
|------------------------------|--------------------|------------|
| Unflavored 30 x 24 g packets | 50600-0514-93      | B4162      |

**MSUD gel (Unflavored) — Ingredients:** Sugar, Corn Starch, L-Lysine L-Aspartate, L-Arginine L-Aspartate, L-Alanine, L-Glutamine, Modified Corn Starch, L-Proline, Glycine, L-Serine, L-Tyrosine, L-Phenylalanine, L-Threonine, Calcium Phosphate, L-Histidine, L-Tryptophan, L-Cystine, Calcium Glycero-phosphate, Sodium Citrate, Magnesium Phosphate Dibasic, L-Arginine, Potassium Chloride, L-Methionine, Potassium Citrate, Choline Bitartrate, Maltodextrin, Ascorbic Acid, Taurine, Salt, Zinc Gluconate, L-Carnitine L-Tartrate, Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Gluconate, Chromium Chloride, Sodium Selenite, Retinyl Acetate, Vitamin D3, Copper Gluconate, Calcium Pantothenate, Biotin, Folic Acid, Vitamin K, Potassium Iodide, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Riboflavin, Vitamin B12.

#### MSUD gel Nutrition Information

|                    | Units   | per 100 g | per 24 g (1 packet) |
|--------------------|---------|-----------|---------------------|
| Calories           | kcal    | 338       | 81                  |
| Protein equivalent | g       | 41.7      | 10                  |
| Total Carbohydrate | g       | 43        | 10.3                |
| Sugars             | g       | 27        | 6.5                 |
| Total Fat          | g       | 0         | 0                   |
| Saturated Fat      | g       | 0         | 0                   |
| <b>VITAMINS</b>    |         |           |                     |
| Vitamin A          | µg RE   | 530       | 127                 |
| Vitamin D          | µg      | 13        | 3.1                 |
| Vitamin E          | mg α TE | 8         | 1.9                 |
| Vitamin C          | mg      | 56        | 13                  |
| Vitamin K          | µg      | 36        | 8.6                 |
| Thiamin            | mg      | 0.89      | 0.21                |
| Riboflavin         | mg      | 1.1       | 0.26                |
| Niacin             | mg      | 12        | 2.9                 |
| Vitamin B6         | mg      | 0.98      | 0.24                |
| Folic acid         | µg      | 180       | 43                  |
| Vitamin B12        | µg      | 1.8       | 0.43                |
| Biotin             | µg      | 22        | 5.3                 |
| Pantothenic acid   | mg      | 4.4       | 1.1                 |
| Choline            | mg      | 250       | 60                  |
| <b>MINERALS</b>    |         |           |                     |
| Sodium             | mg      | 379       | 91                  |
| Potassium          | mg      | 830       | 200                 |
| Chloride           | mg      | 520       | 125                 |
| Calcium            | mg      | 1080      | 260                 |
| Phosphorus         | mg      | 730       | 175                 |
| Magnesium          | mg      | 150       | 36                  |
| Iron               | mg      | 12.4      | 3.0                 |
| Copper             | mg      | 0.70      | 0.17                |
| Zinc               | mg      | 10        | 2.4                 |
| Manganese          | mg      | 1.5       | 0.36                |
| Iodine             | µg      | 120       | 29                  |
| Molybdenum         | µg      | 44        | 11                  |
| Selenium           | µg      | 31        | 7.4                 |
| Chromium           | µg      | 63        | 15                  |
| <b>AMINO ACIDS</b> |         |           |                     |
| L-Alanine          | g       | 5.11      | 1.23                |
| L-Arginine         | g       | 4.85      | 1.16                |
| L-Aspartic acid    | g       | 6.13      | 1.47                |
| L-Cystine          | g       | 1.45      | 0.35                |
| L-Glutamine        | g       | 5.51      | 1.32                |
| Glycine            | g       | 4.06      | 0.97                |
| L-Histidine        | g       | 1.74      | 0.42                |
| L-Isoleucine*      | g       | 0         | 0                   |
| L-Leucine*         | g       | 0         | 0                   |
| L-Lysine           | g       | 3.65      | 0.88                |
| L-Methionine       | g       | 1.05      | 0.25                |
| L-Phenylalanine    | g       | 2.73      | 0.66                |
| L-Proline          | g       | 4.29      | 1.03                |
| L-Serine           | g       | 2.90      | 0.70                |
| L-Threonine        | g       | 2.61      | 0.63                |
| L-Tryptophan       | g       | 1.45      | 0.35                |
| L-Tyrosine         | g       | 2.90      | 0.70                |
| L-Valine*          | g       | 0         | 0                   |
| L-Carnitine        | mg      | 46        | 11                  |
| Taurine            | mg      | 92        | 22                  |

\*No added leucine, isoleucine, and valine.



**A powdered leucine-, isoleucine-, 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 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 100 for directions for use

| Ordering/Reimbursement Information |                   |                    |               |
|------------------------------------|-------------------|--------------------|---------------|
|                                    | Packaging         | Reimbursement Code | HCPCS Code    |
| Unflavored                         | 30 x 25 g packets | 50600-0535-34      | B4162 & B4157 |

**MSUD express15 (Unflavored) — Ingredients:** Dried Glucose Syrup, L-Lysine L-Aspartate, L-Arginine L-Aspartate, L-Glutamine, L-Alanine, L-Proline, Glycine, L-Serine, L-Tyrosine, L-Phenylalanine, L-Threonine, Calcium Phosphate, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Histidine, L-Cystine, L-Tryptophan, Choline Bitartrate, L-Arginine, L-Methionine, Salt, Maltodextrin, 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.



#### MSUD 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                   |
| <b>VITAMINS</b>    |         |           |                     |
| Vitamin A          | µg RE   | 740       | 185                 |
| Vitamin D          | µg      | 11.7      | 2.9                 |
| Vitamin E          | mg a TE | 14        | 3.5                 |
| Vitamin C          | mg      | 96        | 24                  |
| Vitamin K          | µg      | 89        | 22                  |
| Thiamin            | mg      | 1.8       | 0.45                |
| Riboflavin         | mg      | 2.0       | 0.5                 |
| Niacin             | mg      | 22        | 5.5                 |
| Vitamin B6         | mg      | 2.5       | 0.63                |
| Folic acid         | µg      | 360       | 90                  |
| Vitamin B12        | µg      | 4.3       | 1.1                 |
| Biotin             | µg      | 170       | 43                  |
| Pantothenic acid   | mg      | 7.1       | 1.8                 |
| Choline            | mg      | 530       | 133                 |
| <b>MINERALS</b>    |         |           |                     |
| 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       | 0.5                 |
| Zinc               | mg      | 19        | 4.8                 |
| Manganese          | mg      | 2.8       | 0.70                |
| Iodine             | µg      | 220       | 55                  |
| Molybdenum         | µg      | 130       | 33                  |
| Selenium           | µg      | 78        | 20                  |
| Chromium           | µg      | 78        | 20                  |
| <b>AMINO ACIDS</b> |         |           |                     |
| L-Alanine          | g       | 7.23      | 1.81                |
| L-Arginine         | g       | 6.85      | 1.71                |
| L-Aspartic acid    | g       | 8.68      | 2.17                |
| L-Cystine          | g       | 2.05      | 0.51                |
| L-Glutamine        | g       | 7.80      | 1.95                |
| Glycine            | g       | 5.75      | 1.44                |
| L-Histidine        | g       | 2.46      | 0.62                |
| L-Isoleucine*      | g       | 0         | 0                   |
| L-Leucine*         | g       | 0         | 0                   |
| L-Lysine           | g       | 5.16      | 1.29                |
| L-Methionine       | g       | 1.48      | 0.37                |
| L-Phenylalanine    | g       | 3.86      | 0.97                |
| L-Proline          | g       | 6.09      | 1.52                |
| L-Serine           | g       | 4.12      | 1.03                |
| L-Threonine        | g       | 3.70      | 0.93                |
| L-Tryptophan       | g       | 2.05      | 0.51                |
| L-Tyrosine         | g       | 4.10      | 1.03                |
| L-Valine*          | g       | 0         | 0                   |
| L-Carnitine        | mg      | 64        | 16                  |
| Taurine            | mg      | 132       | 33                  |

\*No added leucine, isoleucine, and valine.



**A powdered leucine-, isoleucine-, 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 and minerals
- 1 packet provides 20 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored



#### Osmolality

34 g (1 packet) + 80 ml (2.7 fl oz) water = 2380 mOsm/kg

See page 100 for directions for use

#### Ordering/Reimbursement Information

|            | Packaging         | Reimbursement Code | HCPCS Code    |
|------------|-------------------|--------------------|---------------|
| Unflavored | 30 x 34 g packets | 50600-0516-53      | B4162 & B4157 |

**MSUD express20 (Unflavored) — Ingredients:** Dried Glucose Syrup, L-Lysine L-Aspartate, L-Arginine L-Aspartate, L-Glutamine, L-Alanine, L-Proline, Glycine, L-Serine, L-Tyrosine, L-Phenylalanine, L-Threonine, Calcium Phosphate, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Histidine, L-Cystine, L-Tryptophan, Choline Bitartrate, L-Arginine, L-Methionine, Salt, Maltodextrin, Xanthan Gum, Ascorbic Acid, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate, DL-Alpha Tocopherol 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.

#### MSUD express20 Nutrition Information

|                    | Units   | per 100 g | per 34 g (1 packet) |
|--------------------|---------|-----------|---------------------|
| Calories           | kcal    | 297       | 101                 |
| Protein equivalent | g       | 60        | 20                  |
| Total Carbohydrate | g       | 13.7      | 4.7                 |
| Sugars             | g       | 1.0       | 0.3                 |
| Total Fat          | g       | 0.20      | 0.07                |
| Saturated Fat      | g       | 0         | 0                   |
| <b>VITAMINS</b>    |         |           |                     |
| Vitamin A          | µg RE   | 740       | 252                 |
| Vitamin D          | µg      | 11.7      | 4.0                 |
| Vitamin E          | mg α TE | 14        | 4.7                 |
| Vitamin C          | mg      | 96        | 33                  |
| Vitamin K          | µg      | 89        | 30                  |
| Thiamin            | mg      | 1.8       | 0.61                |
| Riboflavin         | mg      | 2.0       | 0.68                |
| Niacin             | mg      | 22        | 7.5                 |
| Vitamin B6         | mg      | 2.5       | 0.85                |
| Folic acid         | µg      | 360       | 122                 |
| Vitamin B12        | µg      | 4.3       | 1.5                 |
| Biotin             | µg      | 170       | 58                  |
| Pantothenic acid   | mg      | 7.1       | 2.4                 |
| Choline            | mg      | 530       | 180                 |
| <b>MINERALS</b>    |         |           |                     |
| Sodium             | mg      | 510       | 173                 |
| Potassium          | mg      | 840       | 286                 |
| Chloride           | mg      | 650       | 221                 |
| Calcium            | mg      | 1090      | 371                 |
| Phosphorus         | mg      | 990       | 337                 |
| Magnesium          | mg      | 330       | 112                 |
| Iron               | mg      | 19        | 6.5                 |
| Copper             | mg      | 2.0       | 0.68                |
| Zinc               | mg      | 19        | 6.5                 |
| Manganese          | mg      | 2.8       | 0.95                |
| Iodine             | µg      | 220       | 75                  |
| Molybdenum         | µg      | 130       | 44                  |
| Selenium           | µg      | 78        | 27                  |
| Chromium           | µg      | 78        | 27                  |
| <b>AMINO ACIDS</b> |         |           |                     |
| L-Alanine          | g       | 7.23      | 2.46                |
| L-Arginine         | g       | 6.85      | 2.33                |
| L-Aspartic acid    | g       | 8.68      | 2.95                |
| L-Cystine          | g       | 2.05      | 0.70                |
| L-Glutamine        | g       | 7.80      | 2.65                |
| Glycine            | g       | 5.75      | 1.96                |
| L-Histidine        | g       | 2.46      | 0.84                |
| L-Isoleucine*      | g       | 0         | 0                   |
| L-Leucine*         | g       | 0         | 0                   |
| L-Lysine           | g       | 5.16      | 1.75                |
| L-Methionine       | g       | 1.48      | 0.50                |
| L-Phenylalanine    | g       | 3.86      | 1.31                |
| L-Proline          | g       | 6.09      | 2.07                |
| L-Serine           | g       | 4.12      | 1.40                |
| L-Threonine        | g       | 3.70      | 1.26                |
| L-Tryptophan       | g       | 2.05      | 0.70                |
| L-Tyrosine         | g       | 4.10      | 1.39                |
| L-Valine*          | g       | 0         | 0                   |
| L-Carnitine        | mg      | 64        | 22                  |
| Taurine            | mg      | 132       | 45                  |

\*No added leucine, isoleucine, and valine.





# cooler<sup>15</sup>

**A ready-to-drink leucine-, isoleucine- 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 101 for directions for use

| Ordering/Reimbursement Information |                     |                    |               |
|------------------------------------|---------------------|--------------------|---------------|
|                                    | Packaging           | Reimbursement Code | HCPCS Code    |
| Orange                             | 30 x 130 ml pouches | 50600-0546-54      | B4162 & B4157 |
| Red                                | 30 x 130 ml pouches | 50600-0509-15      | B4162 & B4157 |

**MSUD cooler<sup>15</sup> (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 available at [www.VitafloUSA.com](http://www.VitafloUSA.com)



## MSUD cooler<sup>15</sup> 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              |
| <b>VITAMINS</b>            |         |            |                  |
| Vitamin A                  | µg RE   | 133        | 173              |
| Vitamin D                  | µg      | 5.1        | 6.6              |
| Vitamin E                  | mg a TE | 2.7        | 3.5              |
| Vitamin C                  | mg      | 19         | 25               |
| Vitamin K                  | µg      | 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                 | µg      | 51         | 66               |
| Vitamin B12                | µg      | 0.82       | 1.1              |
| Biotin                     | µg      | 6.7        | 8.7              |
| Pantothenic acid           | mg      | 0.98       | 1.3              |
| Choline                    | mg      | 102        | 133              |
| <b>MINERALS</b>            |         |            |                  |
| 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                     | µg      | 45         | 59               |
| Molybdenum                 | µg      | 11         | 14               |
| Selenium                   | µg      | 13         | 17               |
| Chromium                   | µg      | 7.1        | 9.2              |
| <b>AMINO ACIDS</b>         |         |            |                  |
| 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 leucine, isoleucine, and valine.





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

#### Features

- Suitable from 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 10 g protein equivalent
- Designed to be mixed with water or other permitted beverages into a gel/paste or low volume drink
- Available in Unflavored



#### Osmolality

24 g (1 packet) + 30 ml (1 fl oz) water = 3000 mOsm/kg

24 g (1 packet) + 80 ml (2.7 fl oz) water = 1540 mOsm/kg

See page 97 for directions for use

#### Ordering/Reimbursement Information

|            | Packaging         | Reimbursement Code | HCPCS Code |
|------------|-------------------|--------------------|------------|
| Unflavored | 30 x 24 g packets | 50600-0515-09      | B4162      |

**TYR gel (Unflavored) — Ingredients:** Sugar, Corn Starch, L-Lysine L-Aspartate, L-Leucine, L-Arginine L-Aspartate, Modified Corn Starch, L-Valine, L-Glutamine, L-Isoleucine, L-Proline, Glycine, L-Alanine, L-Threonine, L-Serine, Calcium Phosphate, L-Histidine, L-Cystine, Calcium Glycerophosphate, Sodium Citrate, Magnesium Phosphate Dibasic, Potassium Chloride, L-Tryptophan, Potassium Citrate, L-Methionine, L-Arginine, Choline Bitartrate, Maltodextrin, Ascorbic Acid, Taurine, Salt, Zinc Gluconate, L-Carnitine L-tartrate, Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Gluconate, Chromium Chloride, Sodium Selenite, Retinyl Acetate, Vitamin D3, Copper Gluconate, Calcium Pantothenate, Biotin, Folic Acid, Vitamin K, Potassium Iodide, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Riboflavin, Vitamin B12.

#### TYR gel Nutrition Information

|                    | Units   | per 100 g | per 24 g (1 packet) |
|--------------------|---------|-----------|---------------------|
| Calories           | kcal    | 338       | 81                  |
| Protein equivalent | g       | 41.7      | 10                  |
| Total Carbohydrate | g       | 43        | 10.3                |
| Sugars             | g       | 27        | 6.5                 |
| Total Fat          | g       | 0         | 0                   |
| Saturated Fat      | g       | 0         | 0                   |
| <b>VITAMINS</b>    |         |           |                     |
| Vitamin A          | µg RE   | 530       | 127                 |
| Vitamin D          | µg      | 13        | 3.1                 |
| Vitamin E          | mg α TE | 8         | 1.9                 |
| Vitamin C          | mg      | 56        | 13                  |
| Vitamin K          | µg      | 36        | 8.6                 |
| Thiamin            | mg      | 0.89      | 0.21                |
| Riboflavin         | mg      | 1.1       | 0.26                |
| Niacin             | mg      | 12        | 2.9                 |
| Vitamin B6         | mg      | 0.98      | 0.24                |
| Folic acid         | µg      | 180       | 43                  |
| Vitamin B12        | µg      | 1.8       | 0.43                |
| Biotin             | µg      | 22        | 5.3                 |
| Pantothenic acid   | mg      | 4.4       | 1.1                 |
| Choline            | mg      | 250       | 60                  |
| <b>MINERALS</b>    |         |           |                     |
| Sodium             | mg      | 379       | 91                  |
| Potassium          | mg      | 830       | 200                 |
| Chloride           | mg      | 520       | 125                 |
| Calcium            | mg      | 1080      | 260                 |
| Phosphorus         | mg      | 730       | 175                 |
| Magnesium          | mg      | 150       | 36                  |
| Iron               | mg      | 12.4      | 3.0                 |
| Copper             | mg      | 0.70      | 0.17                |
| Zinc               | mg      | 10        | 2.4                 |
| Manganese          | mg      | 15        | 0.36                |
| Iodine             | µg      | 120       | 29                  |
| Molybdenum         | µg      | 44        | 11                  |
| Selenium           | µg      | 31        | 7.4                 |
| Chromium           | µg      | 63        | 15                  |
| <b>AMINO ACIDS</b> |         |           |                     |
| L-Alanine          | g       | 3.12      | 0.75                |
| L-Arginine         | g       | 3.83      | 0.92                |
| L-Aspartic acid    | g       | 5.92      | 1.42                |
| L-Cystine          | g       | 1.43      | 0.34                |
| L-Glutamine        | g       | 3.79      | 0.91                |
| Glycine            | g       | 3.12      | 0.75                |
| L-Histidine        | g       | 2.09      | 0.50                |
| L-Isoleucine       | g       | 3.48      | 0.84                |
| L-Leucine          | g       | 5.57      | 1.34                |
| L-Lysine           | g       | 3.97      | 0.95                |
| L-Methionine       | g       | 0.89      | 0.21                |
| L-Phenylalanine*   | g       | 0         | 0                   |
| L-Proline          | g       | 3.21      | 0.77                |
| L-Serine           | g       | 2.45      | 0.59                |
| L-Threonine        | g       | 2.67      | 0.64                |
| L-Tryptophan       | g       | 1.11      | 0.27                |
| L-Tyrosine*        | g       | 0         | 0                   |
| L-Valine           | g       | 3.79      | 0.91                |
| L-Carnitine        | mg      | 46        | 11                  |
| Taurine            | mg      | 92        | 22                  |

\*No added phenylalanine and tyrosine.



**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 flavor

\*Each packet of TYR sphere20 contains 36 mg of phenylalanine and less than 10.5 mg of tyrosine.

#### Osmolality

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

See page 99 for directions for use

| Ordering/Reimbursement Information |                    |               |               |
|------------------------------------|--------------------|---------------|---------------|
| Packaging                          | Reimbursement Code | HCPCS Code    |               |
| Red Berry                          | 30 x 35 g packets  | 50600-0220-91 | B4157 & B4162 |

**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.



#### TYR sphere20 Nutrition Information

|                            | Units   | per 100 g | per 35 g (1 packet) |
|----------------------------|---------|-----------|---------------------|
| Calories                   | kcal    | 340       | 120                 |
| Protein equivalent         | g       | 56        | 20                  |
| Total Carbohydrate         | g       | 18        | 6.3                 |
| Sugars                     | g       | 4.5       | 3.0                 |
| Total Fat                  | g       | 4.5       | 1.6                 |
| Saturated Fat              | g       | 1.0       | 0.4                 |
| Docosahexaenoic Acid (DHA) | mg      | 314       | 110                 |
| <b>VITAMINS</b>            |         |           |                     |
| Vitamin A                  | µg RE   | 690       | 241                 |
| Vitamin D                  | µg      | 12        | 4.2                 |
| Vitamin E                  | mg α TE | 14        | 4.9                 |
| Vitamin C                  | mg      | 65        | 23                  |
| Vitamin K                  | µg      | 59        | 21                  |
| Thiamin                    | mg      | 1.5       | 0.52                |
| Riboflavin                 | mg      | 1.5       | 0.52                |
| Niacin                     | mg      | 8.6       | 3.0                 |
| Vitamin B6                 | mg      | 1.4       | 0.49                |
| Folic acid                 | µg      | 260       | 91                  |
| Vitamin B12                | µg      | 4.1       | 1.4                 |
| Biotin                     | µg      | 5.1       | 1.8                 |
| Pantothenic acid           | mg      | 32        | 11                  |
| Choline                    | mg      | 510       | 178                 |
| <b>MINERALS</b>            |         |           |                     |
| Sodium                     | mg      | 810       | 283                 |
| Potassium                  | mg      | 590       | 206                 |
| Chloride                   | mg      | 20        | 7.0                 |
| Calcium                    | mg      | 1010      | 353                 |
| Phosphorus                 | mg      | 1050      | 367                 |
| Magnesium                  | mg      | 290       | 101                 |
| Iron                       | mg      | 19.0      | 6.6                 |
| Copper                     | mg      | 1.5       | 0.52                |
| Zinc                       | mg      | 19.0      | 6.6                 |
| Manganese                  | mg      | 1.0       | 0.35                |
| Iodine                     | µg      | 210       | 74                  |
| Molybdenum                 | µg      | 51        | 18                  |
| Selenium                   | µg      | 76        | 27                  |
| Chromium                   | µg      | 30        | 10                  |
| <b>AMINO ACIDS</b>         |         |           |                     |
| L-Alanine                  | g       | 2.36      | 0.83                |
| L-Arginine                 | g       | 4.87      | 1.70                |
| L-Aspartic acid            | g       | 3.74      | 1.31                |
| L-Cystine                  | g       | 0.69      | 0.24                |
| L-Glutamine                | g       | 7.72      | 2.70                |
| Glycine                    | g       | 7.09      | 2.48                |
| L-Histidine                | g       | 2.01      | 0.70                |
| L-Isoleucine               | g       | 4.06      | 1.42                |
| L-Leucine                  | g       | 8.62      | 3.02                |
| L-Lysine                   | g       | 2.73      | 0.96                |
| L-Methionine               | g       | 0.80      | 0.28                |
| L-Phenylalanine            | mg      | 104       | 36                  |
| L-Proline                  | g       | 4.58      | 1.60                |
| L-Serine                   | g       | 2.88      | 1.01                |
| L-Threonine                | g       | 6.55      | 2.29                |
| L-Tryptophan               | g       | 1.15      | 0.40                |
| L-Tyrosine                 | mg      | <30       | <10.5               |
| L-Valine                   | g       | 3.27      | 1.14                |



**A powdered tyrosine- and phenylalanine-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 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 100 for directions for use

#### Ordering/Reimbursement Information

|            | Packaging         | Reimbursement Code | HCPCS Code    |
|------------|-------------------|--------------------|---------------|
| Unflavored | 30 x 25 g packets | 50600-0538-48      | B4162 & B4157 |

**TYR express15 (Unflavored) — Ingredients:** Dried Glucose Syrup, L-Lysine L-Aspartate, L-Leucine, L-Arginine L-Aspartate, L-Glutamine, L-Valine, L-Isoleucine, L-Proline, Glycine, L-Alanine, L-Threonine, L-Serine, Calcium Phosphate, L-Histidine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Cystine, Choline Bitartrate, L-Tryptophan, L-Methionine, Salt, L-Arginine, Maltodextrin, Xanthan Gum, Ascorbic Acid, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate,

DL-Alpha Tocopheryl Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

**Contains:** Soy.

#### TYR 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                   |
| <b>VITAMINS</b>    |         |           |                     |
| Vitamin A          | µg RE   | 740       | 185                 |
| Vitamin D          | µg      | 11.7      | 2.9                 |
| Vitamin E          | mg α TE | 14        | 3.5                 |
| Vitamin C          | mg      | 96        | 24                  |
| Vitamin K          | µg      | 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         | µg      | 360       | 90                  |
| Vitamin B12        | µg      | 4.3       | 1.1                 |
| Biotin             | µg      | 170       | 43                  |
| Pantothenic acid   | mg      | 7.1       | 1.8                 |
| Choline            | mg      | 530       | 133                 |
| <b>MINERALS</b>    |         |           |                     |
| 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             | µg      | 220       | 55                  |
| Molybdenum         | µg      | 130       | 33                  |
| Selenium           | µg      | 78        | 20                  |
| Chromium           | µg      | 78        | 20                  |
| <b>AMINO ACIDS</b> |         |           |                     |
| L-Alanine          | g       | 4.24      | 1.06                |
| L-Arginine         | g       | 5.43      | 1.36                |
| L-Aspartic acid    | g       | 8.40      | 2.10                |
| L-Cystine          | g       | 2.02      | 0.51                |
| L-Glutamine        | g       | 5.37      | 1.34                |
| Glycine            | g       | 4.42      | 1.11                |
| L-Histidine        | g       | 2.97      | 0.74                |
| L-Isoleucine       | g       | 4.93      | 1.23                |
| L-Leucine          | g       | 7.90      | 1.98                |
| L-Lysine           | g       | 5.62      | 1.41                |
| L-Methionine       | g       | 1.26      | 0.32                |
| L-Phenylalanine*   | g       | 0         | 0                   |
| L-Proline          | g       | 4.55      | 1.14                |
| L-Serine           | g       | 3.47      | 0.87                |
| L-Threonine        | g       | 3.79      | 0.95                |
| L-Tryptophan       | g       | 1.58      | 0.40                |
| L-Tyrosine*        | g       | 0         | 0                   |
| L-Valine           | g       | 5.37      | 1.34                |
| L-Carnitine        | mg      | 64        | 16                  |
| Taurine            | mg      | 132       | 33                  |

\*No added phenylalanine and tyrosine.



**A powdered tyrosine- and phenylalanine-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 and minerals
- 1 packet provides 20 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored

#### Osmolality

34 g (1 packet) + 80 ml (2.7 fl oz) water = 2380 mOsm/kg

See page 100 for directions for use

#### Ordering/Reimbursement Information

| Packaging                    | Reimbursement Code | HCPCS Code    |
|------------------------------|--------------------|---------------|
| Unflavored 30 x 34 g packets | 50600-0516-60      | B4162 & B4157 |

**TYR express20 (Unflavored) — Ingredients:** Dried Glucose Syrup, L-Lysine L-Aspartate, L-Leucine, L-Arginine L-Aspartate, L-Glutamine, L-Valine, L-Isoleucine, L-Proline, Glycine, L-Alanine, L-Threonine, L-Serine, Calcium Phosphate, L-Histidine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Cystine, Choline Bitartrate, L-Tryptophan, L-Methionine, Salt, L-Arginine, Maltodextrin, Xanthan Gum, Ascorbic Acid, Ferrous Gluconate, Soy Lecithin, Zinc Gluconate, Taurine, L-Carnitine L-Tartrate, DL-Alpha Tocopheryl Acetate, Manganese Gluconate, Niacinamide, Sodium Selenite, Biotin, Copper Gluconate, Chromium Chloride, Calcium Pantothenate, Retinyl Acetate, Vitamin D, Vitamin B12, Folic Acid, Sodium Molybdate, Pyridoxine Hydrochloride, Potassium Iodide, Thiamine Hydrochloride, Riboflavin, Vitamin K.

**Contains:** Soy.



#### TYR express20 Nutrition Information

|                    | Units   | per 100 g | per 34 g (1 packet) |
|--------------------|---------|-----------|---------------------|
| Calories           | kcal    | 297       | 101                 |
| Protein equivalent | g       | 60        | 20                  |
| Total Carbohydrate | g       | 13.7      | 4.7                 |
| Sugars             | g       | 1.0       | 0.3                 |
| Total Fat          | g       | 0.20      | 0.07                |
| Saturated Fat      | g       | 0         | 0                   |
| <b>VITAMINS</b>    |         |           |                     |
| Vitamin A          | µg RE   | 740       | 252                 |
| Vitamin D          | µg      | 11.7      | 4.0                 |
| Vitamin E          | mg α TE | 14        | 4.7                 |
| Vitamin C          | mg      | 96        | 33                  |
| Vitamin K          | µg      | 89        | 30                  |
| Thiamin            | mg      | 1.8       | 0.61                |
| Riboflavin         | mg      | 2.0       | 0.68                |
| Niacin             | mg      | 22        | 7.5                 |
| Vitamin B6         | mg      | 2.5       | 0.85                |
| Folic acid         | µg      | 360       | 122                 |
| Vitamin B12        | µg      | 4.3       | 1.5                 |
| Biotin             | µg      | 170       | 58                  |
| Pantothenic acid   | mg      | 7.1       | 2.4                 |
| Choline            | mg      | 530       | 180                 |
| <b>MINERALS</b>    |         |           |                     |
| Sodium             | mg      | 510       | 173                 |
| Potassium          | mg      | 840       | 286                 |
| Chloride           | mg      | 650       | 221                 |
| Calcium            | mg      | 1090      | 371                 |
| Phosphorus         | mg      | 990       | 337                 |
| Magnesium          | mg      | 330       | 112                 |
| Iron               | mg      | 19        | 6.5                 |
| Copper             | mg      | 2.0       | 0.68                |
| Zinc               | mg      | 19        | 6.5                 |
| Manganese          | mg      | 2.8       | 0.95                |
| Iodine             | µg      | 220       | 75                  |
| Molybdenum         | µg      | 130       | 44                  |
| Selenium           | µg      | 78        | 27                  |
| Chromium           | µg      | 78        | 27                  |
| <b>AMINO ACIDS</b> |         |           |                     |
| L-Alanine          | g       | 4.24      | 1.44                |
| L-Arginine         | g       | 5.43      | 1.85                |
| L-Aspartic acid    | g       | 8.40      | 2.86                |
| L-Cystine          | g       | 2.02      | 0.69                |
| L-Glutamine        | g       | 5.37      | 1.83                |
| Glycine            | g       | 4.42      | 1.50                |
| L-Histidine        | g       | 2.97      | 1.01                |
| L-Isoleucine       | g       | 4.93      | 1.68                |
| L-Leucine          | g       | 7.90      | 2.69                |
| L-Lysine           | g       | 5.62      | 1.91                |
| L-Methionine       | g       | 1.26      | 0.43                |
| L-Phenylalanine*   | g       | 0         | 0                   |
| L-Proline          | g       | 4.55      | 1.55                |
| L-Serine           | g       | 3.47      | 1.18                |
| L-Threonine        | g       | 3.79      | 1.29                |
| L-Tryptophan       | g       | 1.58      | 0.54                |
| L-Tyrosine*        | g       | 0         | 0                   |
| L-Valine           | g       | 5.37      | 1.83                |
| L-Carnitine        | mg      | 64        | 22                  |
| Taurine            | mg      | 132       | 45                  |

\*No added phenylalanine and tyrosine.



# cooler<sup>15</sup>

**A ready-to-drink tyrosine- and phenylalanine-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 101 for directions for use

| Ordering/Reimbursement Information |                     |                    |               |
|------------------------------------|---------------------|--------------------|---------------|
|                                    | Packaging           | Reimbursement Code | HCPCS Code    |
| Orange                             | 30 x 130 ml pouches | 50600-0539-92      | B4162 & B4157 |
| Red                                | 30 x 130 ml pouches | 50600-0543-26      | B4162 & B4157 |

**TYR cooler<sup>15</sup> (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 available at [www.VitaFloUSA.com](http://www.VitaFloUSA.com)



## TYR cooler<sup>15</sup> 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                  |
| <b>VITAMINS</b>            |         |            |                      |
| Vitamin A                  | µg RE   | 133        | 173                  |
| Vitamin D                  | µg      | 5.1        | 6.6                  |
| Vitamin E                  | mg α TE | 2.7        | 3.5                  |
| Vitamin C                  | mg      | 19         | 25                   |
| Vitamin K                  | µg      | 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                 | µg      | 51         | 66                   |
| Vitamin B12                | µg      | 0.82       | 1.1                  |
| Biotin                     | µg      | 6.7        | 8.7                  |
| Pantothenic acid           | mg      | 0.98       | 1.3                  |
| Choline                    | mg      | 102        | 133                  |
| <b>MINERALS</b>            |         |            |                      |
| 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                     | µg      | 45         | 59                   |
| Molybdenum                 | µg      | 11         | 14                   |
| Selenium                   | µg      | 13         | 17                   |
| Chromium                   | µg      | 7.1        | 9.2                  |
| <b>AMINO ACIDS</b>         |         |            |                      |
| 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 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 10 g protein equivalent
- Designed to be mixed with water or other permitted beverages into a gel/paste or low volume drink
- Available in Unflavored



### Osmolality

24 g (1 packet) + 30 ml (1 fl oz) water = 3000 mOsm/kg

24 g (1 packet) + 80 ml (2.7 fl oz) water = 1540 mOsm/kg

See page 97 for directions for use

### Ordering/Reimbursement Information

| Packaging                    | Reimbursement Code | HCPCS Code |
|------------------------------|--------------------|------------|
| Unflavored 30 x 24 g packets | 50600-0514-86      | B4162      |

**HCU gel (Unflavored) — Ingredients:** Sugar, Corn Starch, L-Lysine L-Aspartate, L-Leucine, Modified Corn Starch, L-Valine, L-Glutamine, L-Isoleucine, L-Proline, Glycine, L-Arginine L-Aspartate, L-Phenylalanine, L-Tyrosine, L-Threonine, L-Serine, Calcium Phosphate, L-Histidine, L-Alanine, L-Arginine, Calcium Glycerophosphate, L-Cystine, Sodium Citrate, Magnesium Phosphate Dibasic, Potassium Chloride, L-Tryptophan, Potassium Citrate, Choline Bitartrate, Maltodextrin, Ascorbic Acid, Taurine, Salt, Zinc Gluconate, L-Carnitine L-Tartrate, Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Gluconate, Chromium Chloride, Sodium Selenite, Retinyl Acetate, Vitamin D3, Copper Gluconate, Calcium Pantothenate, Biotin, Folic Acid, Vitamin B12, Potassium Iodide, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Riboflavin, Vitamin K.

### HCU gel Nutrition Information

|                    | Units   | per 100 g | per 24 g (1 packet) |
|--------------------|---------|-----------|---------------------|
| Calories           | kcal    | 338       | 81                  |
| Protein equivalent | g       | 41.7      | 10                  |
| Total Carbohydrate | g       | 43        | 10.3                |
| Sugars             | g       | 27        | 6.5                 |
| Total Fat          | g       | 0         | 0                   |
| Saturated Fat      | g       | 0         | 0                   |
| <b>VITAMINS</b>    |         |           |                     |
| Vitamin A          | µg RE   | 530       | 127                 |
| Vitamin D          | µg      | 13        | 3.1                 |
| Vitamin E          | mg α TE | 8         | 1.9                 |
| Vitamin C          | mg      | 56        | 13                  |
| Vitamin K          | µg      | 36        | 8.6                 |
| Thiamin            | mg      | 0.89      | 0.21                |
| Riboflavin         | mg      | 1.1       | 0.26                |
| Niacin             | mg      | 12        | 2.9                 |
| Vitamin B6         | mg      | 0.98      | 0.24                |
| Folic acid         | µg      | 180       | 43                  |
| Vitamin B12        | µg      | 1.8       | 0.43                |
| Biotin             | µg      | 22        | 5.3                 |
| Pantothenic acid   | mg      | 4.4       | 1.1                 |
| Choline            | mg      | 250       | 60                  |
| <b>MINERALS</b>    |         |           |                     |
| Sodium             | mg      | 379       | 91                  |
| Potassium          | mg      | 830       | 200                 |
| Chloride           | mg      | 520       | 125                 |
| Calcium            | mg      | 1080      | 260                 |
| Phosphorus         | mg      | 730       | 175                 |
| Magnesium          | mg      | 150       | 36                  |
| Iron               | mg      | 12.4      | 3.0                 |
| Copper             | mg      | 0.70      | 0.17                |
| Zinc               | mg      | 10        | 2.4                 |
| Manganese          | mg      | 15        | 0.36                |
| Iodine             | µg      | 120       | 29                  |
| Molybdenum         | µg      | 44        | 11                  |
| Selenium           | µg      | 31        | 7.4                 |
| Chromium           | µg      | 63        | 15                  |
| <b>AMINO ACIDS</b> |         |           |                     |
| L-Alanine          | g       | 2.05      | 0.49                |
| L-Arginine         | g       | 3.41      | 0.82                |
| L-Aspartic acid    | g       | 4.56      | 1.09                |
| L-Cystine          | g       | 1.37      | 0.33                |
| L-Glutamine        | g       | 4.02      | 0.96                |
| Glycine            | g       | 3.00      | 0.72                |
| L-Histidine        | g       | 2.14      | 0.51                |
| L-Isoleucine       | g       | 3.21      | 0.77                |
| L-Leucine          | g       | 5.57      | 1.34                |
| L-Lysine           | g       | 3.59      | 0.86                |
| L-Methionine*      | g       | 0         | 0                   |
| L-Phenylalanine    | g       | 2.48      | 0.60                |
| L-Proline          | g       | 3.13      | 0.75                |
| L-Serine           | g       | 2.40      | 0.58                |
| L-Threonine        | g       | 2.44      | 0.59                |
| L-Tryptophan       | g       | 1.07      | 0.26                |
| L-Tyrosine         | g       | 2.46      | 0.59                |
| L-Valine           | g       | 3.53      | 0.85                |
| L-Carnitine        | mg      | 46        | 11                  |
| Taurine            | mg      | 92        | 22                  |

\*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, 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 100 for directions for use

| Ordering/Reimbursement Information |                   |                    |               |
|------------------------------------|-------------------|--------------------|---------------|
|                                    | Packaging         | Reimbursement Code | HCPCS Code    |
| Unflavored                         | 30 x 25 g packets | 50600-0535-58      | B4162 & B4157 |

**HCU express15 (Unflavored) — Ingredients:** Dried Glucose Syrup, L-Lysine L-Aspartate, L-Leucine, L-Glutamine, L-Valine, L-Isoleucine, L-Proline, Glycine, L-Arginine L-Aspartate, L-Phenylalanine, L-Tyrosine, L-Threonine, L-Serine, Calcium Phosphate, L-Histidine, L-Alanine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Arginine, L-Cystine, Choline Bitartrate, L-Tryptophan, Salt, Maltodextrin, 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.



| HCU 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                   |
| <b>VITAMINS</b>                     |         |           |                     |
| Vitamin A                           | µg RE   | 740       | 185                 |
| Vitamin D                           | µg      | 11.7      | 2.9                 |
| Vitamin E                           | mg α TE | 14        | 3.5                 |
| Vitamin C                           | mg      | 96        | 24                  |
| Vitamin K                           | µg      | 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                          | µg      | 360       | 90                  |
| Vitamin B12                         | µg      | 4.3       | 1.1                 |
| Biotin                              | µg      | 170       | 43                  |
| Pantothenic acid                    | mg      | 7.1       | 1.8                 |
| Choline                             | mg      | 530       | 133                 |
| <b>MINERALS</b>                     |         |           |                     |
| 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                              | µg      | 220       | 55                  |
| Molybdenum                          | µg      | 130       | 33                  |
| Selenium                            | µg      | 78        | 20                  |
| Chromium                            | µg      | 78        | 20                  |
| <b>AMINO ACIDS</b>                  |         |           |                     |
| L-Alanine                           | g       | 2.93      | 0.73                |
| L-Arginine                          | g       | 4.86      | 1.22                |
| L-Aspartic acid                     | g       | 6.51      | 1.63                |
| L-Cystine                           | g       | 1.92      | 0.48                |
| L-Glutamine                         | g       | 5.70      | 1.43                |
| Glycine                             | g       | 4.20      | 1.05                |
| L-Histidine                         | g       | 3.05      | 0.76                |
| L-Isoleucine                        | g       | 4.50      | 1.13                |
| L-Leucine                           | g       | 7.80      | 1.95                |
| L-Lysine                            | g       | 5.03      | 1.26                |
| L-Methionine*                       | g       | 0         | 0                   |
| L-Phenylalanine                     | g       | 3.48      | 0.87                |
| L-Proline                           | g       | 4.43      | 1.11                |
| L-Serine                            | g       | 3.42      | 0.86                |
| L-Threonine                         | g       | 3.42      | 0.86                |
| L-Tryptophan                        | g       | 1.50      | 0.38                |
| L-Tyrosine                          | g       | 3.48      | 0.87                |
| L-Valine                            | g       | 4.98      | 1.25                |
| L-Carnitine                         | mg      | 64        | 16                  |
| Taurine                             | mg      | 132       | 33                  |

\*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, vitamins and minerals
- 1 packet provides 20 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored

#### Osmolality

34 g (1 packet) + 80 ml (2.7 fl oz) water = 2380 mOsm/kg

See page 100 for directions for use

#### Ordering/Reimbursement Information

|            | Packaging         | Reimbursement Code | HCPCS Code    |
|------------|-------------------|--------------------|---------------|
| Unflavored | 30 x 34 g packets | 50600-0516-46      | B4162 & B4157 |

**HCU express20 (Unflavored) — Ingredients:** Dried Glucose Syrup, L-Lysine L-Aspartate, L-Leucine, L-Glutamine, L-Valine, L-Isoleucine, L-Proline, Glycine, L-Arginine L-Aspartate, L-Phenylalanine, L-Tyrosine, L-Threonine, L-Serine, Calcium Phosphate, L-Histidine, L-Alanine, Magnesium Phosphate Dibasic, Modified Corn Starch, Potassium Citrate, L-Arginine, L-Cystine, Choline Bitartrate, L-Tryptophan, Salt, Maltodextrin, 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.



#### HCU express20 Nutrition Information

|                    | Units | per 100 g | per 34 g (1 packet) |
|--------------------|-------|-----------|---------------------|
| Calories           | kcal  | 297       | 101                 |
| Protein equivalent | g     | 60        | 20                  |
| Total Carbohydrate | g     | 13.7      | 4.7                 |
| Sugars             | g     | 1.0       | 0.3                 |
| Total Fat          | g     | 0.20      | 0.07                |
| Saturated Fat      | g     | 0         | 0                   |

#### VITAMINS

|                  |         |      |      |
|------------------|---------|------|------|
| Vitamin A        | µg RE   | 740  | 252  |
| Vitamin D        | µg      | 11.7 | 4.0  |
| Vitamin E        | mg α TE | 14   | 4.7  |
| Vitamin C        | mg      | 96   | 33   |
| Vitamin K        | µg      | 89   | 30   |
| Thiamin          | mg      | 1.8  | 0.61 |
| Riboflavin       | mg      | 2.0  | 0.68 |
| Niacin           | mg      | 22   | 7.5  |
| Vitamin B6       | mg      | 2.5  | 0.85 |
| Folic acid       | µg      | 360  | 122  |
| Vitamin B12      | µg      | 4.3  | 1.5  |
| Biotin           | µg      | 170  | 58   |
| Pantothenic acid | mg      | 7.1  | 2.4  |
| Choline          | mg      | 530  | 180  |

#### MINERALS

|            |    |      |      |
|------------|----|------|------|
| Sodium     | mg | 510  | 173  |
| Potassium  | mg | 840  | 286  |
| Chloride   | mg | 650  | 221  |
| Calcium    | mg | 1090 | 371  |
| Phosphorus | mg | 990  | 337  |
| Magnesium  | mg | 330  | 112  |
| Iron       | mg | 19   | 6.5  |
| Copper     | mg | 2.0  | 0.68 |
| Zinc       | mg | 19   | 6.5  |
| Manganese  | mg | 2.8  | 0.95 |
| Iodine     | µg | 220  | 75   |
| Molybdenum | µg | 130  | 44   |
| Selenium   | µg | 78   | 27   |
| Chromium   | µg | 78   | 27   |

#### AMINO ACIDS

|                 |    |      |      |
|-----------------|----|------|------|
| L-Alanine       | g  | 2.93 | 1.00 |
| L-Arginine      | g  | 4.86 | 1.65 |
| L-Aspartic acid | g  | 6.51 | 2.21 |
| L-Cystine       | g  | 1.92 | 0.65 |
| L-Glutamine     | g  | 5.70 | 1.94 |
| Glycine         | g  | 4.20 | 1.43 |
| L-Histidine     | g  | 3.05 | 1.04 |
| L-Isoleucine    | g  | 4.50 | 1.53 |
| L-Leucine       | g  | 7.80 | 2.65 |
| L-Lysine        | g  | 5.03 | 1.71 |
| L-Methionine*   | g  | 0    | 0    |
| L-Phenylalanine | g  | 3.48 | 1.18 |
| L-Proline       | g  | 4.43 | 1.51 |
| L-Serine        | g  | 3.42 | 1.16 |
| L-Threonine     | g  | 3.42 | 1.16 |
| L-Tryptophan    | g  | 1.50 | 0.51 |
| L-Tyrosine      | g  | 3.48 | 1.18 |
| L-Valine        | g  | 4.98 | 1.69 |
| L-Carnitine     | mg | 64   | 22   |
| Taurine         | mg | 132  | 45   |

\*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 101 for directions for use

### Ordering/Reimbursement Information

|        | Packaging           | Reimbursement Code | HCPCS Code    |
|--------|---------------------|--------------------|---------------|
| Orange | 30 x 130 ml pouches | 50600-0535-27      | B4162 & B4157 |
| Red    | 30 x 130 ml pouches | 50600-0504-34      | B4162 & B4157 |

**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 available at [www.VitaFloUSA.com](http://www.VitaFloUSA.com)

### HCU cooler15 Nutrition Information

|                            | Units   | per 100 ml | per 130 ml (1 pouch) |
|----------------------------|---------|------------|----------------------|
| Calories                   |         | 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                  |
| <b>VITAMINS</b>            |         |            |                      |
| Vitamin A                  | µg RE   | 133        | 173                  |
| Vitamin D                  | µg      | 5.1        | 6.6                  |
| Vitamin E                  | mg α TE | 2.7        | 3.5                  |
| Vitamin C                  | mg      | 19         | 25                   |
| Vitamin K                  | µg      | 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                 | µg      | 51         | 66                   |
| Vitamin B12                | µg      | 0.82       | 1.1                  |
| Biotin                     | µg      | 6.7        | 8.7                  |
| Pantothenic acid           | mg      | 0.98       | 1.3                  |
| Choline                    | mg      | 102        | 133                  |
| <b>MINERALS</b>            |         |            |                      |
| 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                     | µg      | 45         | 59                   |
| Molybdenum                 | µg      | 11         | 14                   |
| Selenium                   | µg      | 13         | 17                   |
| Chromium                   | µg      | 7.1        | 9.2                  |
| <b>AMINO ACIDS</b>         |         |            |                      |
| 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.



**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 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 10 g protein equivalent
- Designed to be mixed with water or other permitted beverages into a gel/paste or low volume drink
- Available in Unflavored

#### Osmolality

24 g (1 packet) + 30 ml (1 fl oz) water = 3000 mOsm/kg

24 g (1 packet) + 80 ml (2.7 fl oz) water = 1540 mOsm/kg

See page 97 for directions for use



#### Ordering/Reimbursement Information

| Packaging                    | Reimbursement Code | HCPCS Code |
|------------------------------|--------------------|------------|
| Unflavored 30 x 24 g packets | 50600-0515-23      | B4162      |

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

#### MMA/PA gel Nutrition Information

|                    | Units   | per 100 g | per 24 g (1 packet) |
|--------------------|---------|-----------|---------------------|
| Calories           | kcal    | 338       | 81                  |
| Protein equivalent | g       | 41.7      | 10                  |
| Total Carbohydrate | g       | 43        | 10.3                |
| Sugars             | g       | 27        | 6.5                 |
| Total Fat          | g       | 0         | 0                   |
| Saturated Fat      | g       | 0         | 0                   |
| <b>VITAMINS</b>    |         |           |                     |
| Vitamin A          | µg RE   | 530       | 127                 |
| Vitamin D          | µg      | 13        | 3.1                 |
| Vitamin E          | mg α TE | 8         | 1.9                 |
| Vitamin C          | mg      | 56        | 13                  |
| Vitamin K          | µg      | 36        | 8.6                 |
| Thiamin            | mg      | 0.89      | 0.21                |
| Riboflavin         | mg      | 1.1       | 0.26                |
| Niacin             | mg      | 12        | 2.9                 |
| Vitamin B6         | mg      | 0.98      | 0.24                |
| Folic acid         | µg      | 180       | 43                  |
| Vitamin B12        | µg      | 1.8       | 0.43                |
| Biotin             | µg      | 22        | 5.3                 |
| Pantothenic acid   | mg      | 4.4       | 1.1                 |
| Choline            | mg      | 250       | 60                  |
| <b>MINERALS</b>    |         |           |                     |
| Sodium             | mg      | 379       | 91                  |
| Potassium          | mg      | 830       | 200                 |
| Chloride           | mg      | 520       | 125                 |
| Calcium            | mg      | 1080      | 260                 |
| Phosphorus         | mg      | 730       | 175                 |
| Magnesium          | mg      | 150       | 36                  |
| Iron               | mg      | 12.4      | 3.0                 |
| Copper             | mg      | 0.70      | 0.17                |
| Zinc               | mg      | 10        | 2.4                 |
| Manganese          | mg      | 15        | 0.36                |
| Iodine             | µg      | 120       | 29                  |
| Molybdenum         | µg      | 44        | 11                  |
| Selenium           | µg      | 31        | 7.4                 |
| Chromium           | µg      | 63        | 15                  |
| <b>AMINO ACIDS</b> |         |           |                     |
| L-Alanine          | g       | 4.15      | 1.00                |
| L-Arginine         | g       | 4.30      | 1.03                |
| L-Aspartic acid    | g       | 7.46      | 1.79                |
| L-Cystine          | g       | 1.77      | 0.42                |
| L-Glutamine        | g       | 5.06      | 1.21                |
| Glycine            | g       | 1.95      | 0.47                |
| L-Histidine        | g       | 2.78      | 0.67                |
| L-Isoleucine       | g       | 0.15      | 0.04                |
| L-Leucine          | g       | 6.58      | 1.58                |
| L-Lysine           | g       | 4.58      | 1.10                |
| L-Methionine*      | g       | 0         | 0                   |
| L-Phenylalanine    | g       | 2.78      | 0.67                |
| L-Proline          | g       | 2.02      | 0.48                |
| L-Serine           | g       | 2.93      | 0.70                |
| L-Threonine*       | g       | 0         | 0                   |
| L-Tryptophan       | g       | 1.11      | 0.27                |
| L-Tyrosine         | g       | 2.78      | 0.67                |
| L-Valine*          | g       | 0         | 0                   |
| L-Carnitine        | mg      | 46        | 11                  |
| Taurine            | mg      | 92        | 22                  |

\*No added methionine, threonine, and valine.



**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 100 for directions for use

| Ordering/Reimbursement Information |                   |                    |               |
|------------------------------------|-------------------|--------------------|---------------|
|                                    | Packaging         | Reimbursement Code | HCPCS Code    |
| Unflavored                         | 30 x 25 g packets | 50600-0543-71      | B4162 & B4157 |

**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                   |
| <b>VITAMINS</b>    |         |           |                     |
| Vitamin A          | µg RE   | 740       | 185                 |
| Vitamin D          | µg      | 11.7      | 2.9                 |
| Vitamin E          | mg a TE | 14        | 3.5                 |
| Vitamin C          | mg      | 96        | 24                  |
| Vitamin K          | µg      | 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         | µg      | 360       | 90                  |
| Vitamin B12        | µg      | 4.3       | 1.1                 |
| Biotin             | µg      | 170       | 43                  |
| Pantothenic acid   | mg      | 7.1       | 1.8                 |
| Choline            | mg      | 530       | 133                 |
| <b>MINERALS</b>    |         |           |                     |
| 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             | µg      | 220       | 55                  |
| Molybdenum         | µg      | 130       | 33                  |
| Selenium           | µg      | 78        | 20                  |
| Chromium           | µg      | 78        | 20                  |
| <b>AMINO ACIDS</b> |         |           |                     |
| 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.



# cooler<sup>15</sup>

**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 101 for directions for use

## Ordering/Reimbursement Information

|     | Packaging           | Reimbursement Code | HCPCS Code    |
|-----|---------------------|--------------------|---------------|
| Red | 30 x 130 ml pouches | 50600-0561-22      | B4162 & B4157 |

**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.

## 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        | µg RE   | 133  | 173  |
| Vitamin D        | µg      | 5.1  | 6.6  |
| Vitamin E        | mg α TE | 2.7  | 3.5  |
| Vitamin C        | mg      | 19   | 25   |
| Vitamin K        | µg      | 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       | µg      | 51   | 66   |
| Vitamin B12      | µg      | 0.82 | 1.1  |
| Biotin           | µg      | 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     | µg | 45   | 59   |
| Molybdenum | µg | 11   | 14   |
| Selenium   | µg | 13   | 17   |
| Chromium   | µg | 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 1 year of age
- A blend of essential and non-essential amino acids, carbohydrate, vitamins and minerals
- 1 packet provides 10 g protein equivalent
- Designed to be mixed with water or other permitted beverages to a low volume drink
- Available in Unflavored



### Osmolality

24 g (1 packet) + 30 ml (1 fl oz) water = 3000 mOsm/kg

24 g (1 packet) + 80 ml (2.7 fl oz) water = 1540 mOsm/kg

See page 97 for directions for use

### Ordering/Reimbursement Information

|            | Packaging         | Reimbursement Code | HCPCS Code |
|------------|-------------------|--------------------|------------|
| Unflavored | 30 x 24 g packets | 50600-0515-16      | B4162      |

**GA gel (Unflavored) — Ingredients:** Sugar, Corn Starch, L-Leucine, Modified Corn Starch, 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, L-Cystine, Calcium Glycerophosphate, Sodium Citrate, Magnesium Phosphate Dibasic, Potassium Chloride, L-Methionine, Potassium Citrate, Choline Bitartrate, L-Tryptophan, Maltodextrin, Ascorbic Acid, Taurine, Salt, Zinc Gluconate, L-Carnitine L-Tartrate, Ferrous Sulfate, DL-Alpha Tocopherol Acetate, Niacinamide, Manganese Gluconate, Chromium Chloride, Sodium Selenite, Retinyl Acetate, Vitamin D3, Copper Gluconate, Calcium Pantothenate, Biotin, Folic Acid, Vitamin B12, Potassium Iodide, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Riboflavin, Vitamin K.

### GA gel Nutrition Information

|                    | Units   | per 100 g | per 24 g (1 packet) |
|--------------------|---------|-----------|---------------------|
| Calories           | kcal    | 338       | 81                  |
| Protein equivalent | g       | 41.7      | 10                  |
| Total Carbohydrate | g       | 43        | 10.3                |
| Sugars             | g       | 27        | 6.5                 |
| Total Fat          | g       | 0         | 0                   |
| Saturated Fat      | g       | 0         | 0                   |
| <b>VITAMINS</b>    |         |           |                     |
| Vitamin A          | µg RE   | 530       | 127                 |
| Vitamin D          | µg      | 13        | 3.1                 |
| Vitamin E          | mg α TE | 8         | 1.9                 |
| Vitamin C          | mg      | 56        | 13                  |
| Vitamin K          | µg      | 36        | 8.6                 |
| Thiamin            | mg      | 0.89      | 0.21                |
| Riboflavin         | mg      | 1.1       | 0.26                |
| Niacin             | mg      | 12        | 2.9                 |
| Vitamin B6         | mg      | 0.98      | 0.24                |
| Folic acid         | µg      | 180       | 43                  |
| Vitamin B12        | µg      | 1.8       | 0.43                |
| Biotin             | µg      | 22        | 5.3                 |
| Pantothenic acid   | mg      | 4.4       | 1.1                 |
| Choline            | mg      | 250       | 60                  |
| <b>MINERALS</b>    |         |           |                     |
| Sodium             | mg      | 379       | 91                  |
| Potassium          | mg      | 830       | 200                 |
| Chloride           | mg      | 520       | 125                 |
| Calcium            | mg      | 1083      | 260                 |
| Phosphorus         | mg      | 730       | 175                 |
| Magnesium          | mg      | 150       | 36                  |
| Iron               | mg      | 12.4      | 3.0                 |
| Copper             | mg      | 0.70      | 0.17                |
| Zinc               | mg      | 10        | 2.4                 |
| Manganese          | mg      | 15        | 0.36                |
| Iodine             | µg      | 120       | 29                  |
| Molybdenum         | µg      | 44        | 11                  |
| Selenium           | µg      | 31        | 7.4                 |
| Chromium           | µg      | 63        | 15                  |
| <b>AMINO ACIDS</b> |         |           |                     |
| L-Alanine          | g       | 4.47      | 1.07                |
| L-Arginine         | g       | 4.19      | 1.01                |
| L-Aspartic acid    | g       | 2.61      | 0.63                |
| L-Cystine          | g       | 1.60      | 0.38                |
| L-Glutamine        | g       | 0         | 0                   |
| Glycine            | g       | 2.82      | 0.68                |
| L-Histidine        | g       | 1.97      | 0.47                |
| L-Isoleucine       | g       | 3.62      | 0.87                |
| L-Leucine          | g       | 6.28      | 1.51                |
| L-Lysine*          | g       | 0         | 0                   |
| L-Methionine       | g       | 1.10      | 0.26                |
| L-Phenylalanine    | g       | 3.02      | 0.72                |
| L-Proline          | g       | 3.52      | 0.84                |
| L-Serine           | g       | 3.12      | 0.75                |
| L-Threonine        | g       | 3.37      | 0.81                |
| L-Tryptophan       | g       | 0.31      | 0.07                |
| L-Tyrosine         | g       | 3.52      | 0.84                |
| L-Valine           | g       | 4.41      | 1.06                |
| L-Carnitine        | mg      | 46        | 11                  |
| Taurine            | mg      | 92        | 22                  |

\*No added lysine.



## 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 100 for directions for use

### Ordering/Reimbursement Information

|            | Packaging         | Reimbursement Code | HCPCS Code    |
|------------|-------------------|--------------------|---------------|
| Unflavored | 30 x 25 g packets | 50600-0516-22      | B4162 & B4157 |

**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                   |
| <b>VITAMINS</b>    |         |           |                     |
| Vitamin A          | µg RE   | 740       | 185                 |
| Vitamin D          | µg      | 11.7      | 2.9                 |
| Vitamin E          | mg α TE | 14        | 3.5                 |
| Vitamin C          | mg      | 96        | 24                  |
| Vitamin K          | µg      | 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         | µg      | 360       | 90                  |
| Vitamin B12        | µg      | 4.3       | 1.1                 |
| Biotin             | µg      | 170       | 43                  |
| Pantothenic acid   | mg      | 7.1       | 1.8                 |
| Choline            | mg      | 530       | 133                 |
| <b>MINERALS</b>    |         |           |                     |
| 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             | µg      | 220       | 55                  |
| Molybdenum         | µg      | 130       | 33                  |
| Selenium           | µg      | 78        | 20                  |
| Chromium           | µg      | 78        | 20                  |
| <b>AMINO ACIDS</b> |         |           |                     |
| 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) + 135 ml (4.5 fl oz) water = 661 mOsm/kg

See page 103 for directions for use

### Ordering/Reimbursement Information

|            | Packaging | Reimbursement Code | HCPCS Code    |
|------------|-----------|--------------------|---------------|
| Unflavored | 400 g can | 50600-0518-20      | B4157 & B4162 |

**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, Sodium Citrate, Potassium Chloride, L-Threonine, Magnesium Hydrogen Phosphate, L-Tyrosine, Choline Bitartrate, L-Phenylalanine, L-Methionine, L-Histidine, High Docosahexaenoic Acid Single Cell Vegetable Oil, L-Cystine, Maltodextrin, L-Tryptophan, Citric Acid Esters of Mono and Diglycerides of Fatty Acids, Xanthan Gum, Magnesium Acetate, L-Ascorbic Acid, Zinc Gluconate, Sodium Caseinate (Milk), Inositol, Taurine, Sodium Ascorbate (Preservative), Ferrous Sulfate, L-Carnitine L-Tartrate, DL-Alpha Tocopherol Acetate, Potassium Phosphate, Manganese Gluconate, Mono and Diglycerides of Fatty Acids, Niacinamide, Copper Gluconate, Vitamin A Acetate, Calcium Pantothenate, Soy Lecithin, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, DL-Alpha Tocopherol (Preservative), Folic Acid, Chromium Chloride, Potassium Iodide, Sodium Molybdate, Sodium Selenite, Biotin, Phylloquinone, Cholecalciferol, Cyanocobalamin, Tocopherol (Preservative), Ascorbyl Palmitate (Preservative).

**Contains:** Soy and Milk.

### 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                  |
| <b>VITAMINS</b>    |         |           |                      |
| Vitamin A          | µg RE   | 623       | 103                  |
| Vitamin D          | µg      | 22.5      | 3.7                  |
| Vitamin E          | mg α TE | 11.7      | 1.9                  |
| Vitamin C          | mg      | 81        | 13.4                 |
| Vitamin K          | µg      | 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         | µg      | 420       | 69.3                 |
| Vitamin B12        | µg      | 3.6       | 0.59                 |
| Biotin             | µg      | 90        | 14.9                 |
| Pantothenic acid   | mg      | 6.0       | 0.99                 |
| Choline            | mg      | 450       | 74.3                 |
| Inositol           | mg      | 90        | 14.9                 |
| <b>MINERALS</b>    |         |           |                      |
| 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             | µg      | 1400      | 231                  |
| Zinc               | mg      | 16.3      | 2.7                  |
| Manganese          | mg      | 2.4       | 0.40                 |
| Iodine             | µg      | 189       | 31.2                 |
| Molybdenum         | µg      | 108       | 17.8                 |
| Selenium           | µg      | 66        | 10.9                 |
| Chromium           | µg      | 66        | 10.9                 |
| <b>AMINO ACIDS</b> |         |           |                      |
| 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, 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 (3.4 fl oz) water = 660 mOsm/kg

See page 104 for directions for use

| Ordering/Reimbursement Information |                     |                    |               |
|------------------------------------|---------------------|--------------------|---------------|
|                                    | Packaging           | Reimbursement Code | HCPCS Code    |
| EAA Supplement                     | 50 x 12.5 g packets | 50600-0549-06      | B4157 & B4162 |

**EAA Supplement — Ingredients:** Sugar, L-Leucine, L-Lysine Acetate, L-Valine, Magnesium Hydrogen Phosphate, Calcium Phosphate, L-Isoleucine, L-Tyrosine, L-Threonine, L-Phenylalanine, Malic Acid, Modified Corn Starch, Maltodextrin, L-Cystine, L-Histidine, L-Methionine, L-Tryptophan, Ferrous Gluconate, Xanthan Gum, L-Ascorbic Acid, Zinc Gluconate, Artificial Flavoring, Soy Lecithin, L-Carnitine L-Tartrate, Acesulfame Potassium, Beta Carotene (Color), Manganese Gluconate, Nicotinamide, Beet Red (Color), DL-Alpha Tocopherol Acetate, Copper Gluconate, Calcium Pantothenate, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Riboflavin, Vitamin A Acetate, Folic Acid, Chromium Chloride, Sodium Molybdate, Potassium Iodide, Biotin, Phylloquinone, Sodium Selenite, Cholecalciferol, Cyanocobalamin.

**Contains:** Soy.

### EAA Supplement Nutrition Information

|                    | Units   | per 100 g | per 12.5 g (1 packet) |
|--------------------|---------|-----------|-----------------------|
| Calories           | kcal    | 288       | 36                    |
| Protein equivalent | g       | 40        | 5.0                   |
| Total Carbohydrate | g       | 31.8      | 4.0                   |
| Sugars             | g       | 24        | 3.0                   |
| Total Fat          | g       | 0.1       | 0                     |
| Saturated Fat      | g       | 0         | 0                     |
| <b>VITAMINS</b>    |         |           |                       |
| Vitamin A          | µg RE   | 2030      | 254                   |
| Vitamin D          | µg      | 25.1      | 3.2                   |
| Vitamin E          | mg α TE | 31.2      | 3.9                   |
| Vitamin C          | mg      | 218       | 27.2                  |
| Vitamin K          | µg      | 203       | 25.4                  |
| Thiamin            | mg      | 4.1       | 0.5                   |
| Riboflavin         | mg      | 4.6       | 0.6                   |
| Niacin             | mg      | 50.8      | 6.4                   |
| Vitamin B6         | mg      | 5.8       | 0.8                   |
| Folic acid         | µg      | 812       | 102                   |
| Vitamin B12        | µg      | 9.4       | 1.2                   |
| Biotin             | µg      | 377       | 47.2                  |
| Pantothenic acid   | mg      | 16        | 2.0                   |
| <b>MINERALS</b>    |         |           |                       |
| Sodium             | mg      | 15        | 1.9                   |
| Potassium          | mg      | 35        | 4.4                   |
| Chloride           | mg      | 0         | 0                     |
| Calcium            | mg      | 2326      | 291                   |
| Phosphorus         | mg      | 2265      | 283                   |
| Magnesium          | mg      | 837       | 105                   |
| Iron               | mg      | 43.5      | 5.5                   |
| Copper             | µg      | 4400      | 550                   |
| Zinc               | mg      | 43.5      | 5.5                   |
| Manganese          | mg      | 6.4       | 0.80                  |
| Iodine             | µg      | 508       | 63.5                  |
| Molybdenum         | µg      | 290       | 36.5                  |
| Selenium           | µg      | 174       | 22                    |
| Chromium           | µg      | 174       | 22                    |
| <b>AMINO ACIDS</b> |         |           |                       |
| L-Cystine          | g       | 1.80      | 0.25                  |
| L-Histidine        | g       | 1.80      | 0.25                  |
| L-Isoleucine       | g       | 5.70      | 0.70                  |
| L-Leucine          | g       | 9.80      | 1.25                  |
| L-Lysine           | g       | 6.60      | 0.85                  |
| L-Methionine       | g       | 1.80      | 0.25                  |
| L-Phenylalanine    | g       | 3.40      | 0.40                  |
| L-Threonine        | g       | 4.10      | 0.50                  |
| L-Tryptophan       | g       | 1.30      | 0.15                  |
| L-Tyrosine         | g       | 4.70      | 0.60                  |
| L-Valine           | g       | 7.20      | 0.90                  |
| L-Carnitine        | mg      | 130       | 17                    |





**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 105 for directions for use

| Ordering/Reimbursement Information |           |                    |               |
|------------------------------------|-----------|--------------------|---------------|
|                                    | Packaging | Reimbursement Code | HCPCS Code    |
| LIPIstart                          | 400 g can | 50600-0502-05      | B4150 & B4158 |

**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<br>(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                                      |
| <b>VITAMINS</b>                  |         |           |                                           |
| Vitamin A                        | µg RE   | 408       | 61                                        |
| Vitamin D                        | µg      | 9.4       | 1.4                                       |
| Vitamin E                        | mg α TE | 6.0       | 0.9                                       |
| Vitamin C                        | mg      | 53        | 8.0                                       |
| Vitamin K                        | µg      | 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                       | µg      | 71        | 11                                        |
| Vitamin B12                      | µg      | 1.0       | 0.15                                      |
| Pantothenic Acid                 | mg      | 2.5       | 0.38                                      |
| Biotin                           | µg      | 16        | 2.4                                       |
| Choline                          | mg      | 142       | 21                                        |
| Inositol                         | mg      | 53        | 8.0                                       |
| <b>MINERALS</b>                  |         |           |                                           |
| 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                           | µg      | 81        | 12                                        |
| Molybdenum                       | µg      | 22        | 3.3                                       |
| Selenium                         | µg      | 17        | 2.6                                       |
| Chromium                         | µg      | 11        | 1.6                                       |
| <b>AMINO ACIDS</b>               |         |           |                                           |
| 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 106 for directions for use

| Ordering/Reimbursement Information |                    |               |       |
|------------------------------------|--------------------|---------------|-------|
| Packaging                          | Reimbursement Code | HCPCS Code    |       |
| MCTprocal                          | 30 x 16 g packets  | 50600-0502-36 | B4155 |

| 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                |
| <b>MINERALS</b>                  |       |           |                     |
| Sodium                           | mg    | 220       | 35                  |
| Potassium                        | mg    | 542       | 87                  |
| Calcium                          | mg    | 320       | 51                  |
| Phosphorus                       | mg    | 444       | 71                  |

**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 107 for directions for use

| Ordering/Reimbursement Information |                   |                    |            |
|------------------------------------|-------------------|--------------------|------------|
|                                    | Packaging         | Reimbursement Code | HCPCS Code |
| Unflavored                         | 30 x 60 g packets | 50600-0514-00      | B4155      |
| Lemon                              | 30 x 60 g packets | 50600-0247-67      | B4155      |

| 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.



**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.S20 is recommended from 2 years of age
  - 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.S20 = 20% CHO solution
  - S.O.S25 = 25% CHO solution
- Neutral taste (Unflavored)

#### Osmolality

42 g of S.O.S20 + water to a final volume of 200 ml = 280 mOsm/kg

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

See page 108 for directions for use



#### Ordering/Reimbursement Information

|         | Packaging         | Reimbursement Code | HCPCS Code    |
|---------|-------------------|--------------------|---------------|
| S.O.S20 | 30 x 42 g packets | 50600-0522-78      | B4157 & B4162 |
| S.O.S25 | 30 x 52 g packets | 50600-0522-85      | B4157 & B4162 |

#### S.O.S Nutrition Information

|                    | Units | 100 g | 200 ml of<br>S.O.S20<br>42 g packet reconstituted | 200 ml of<br>S.O.S25<br>52 g packet reconstituted |
|--------------------|-------|-------|---------------------------------------------------|---------------------------------------------------|
| Calories           | kcal  | 380   | 160                                               | 200                                               |
| Protein            | g     | 0     | 0                                                 | 0                                                 |
| Total Carbohydrate | g     | 95    | 40                                                | 50                                                |
| Sugars             | g     | 9.0   | 3.8                                               | 4.7                                               |
| Total Fat          | g     | 0     | 0                                                 | 0                                                 |
| <b>MINERALS</b>    |       |       |                                                   |                                                   |
| Sodium             | mg    | <20   | <8.0                                              | <10                                               |

**Ingredient:** Dried Glucose Syrup.

## INTRODUCTION TO 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 |
|------------------------|--------------------------|-------------|
| <b>Arginine500</b>     | 500 mg of L-Arginine     | 4 g         |
| <b>Arginine2000</b>    | 2000 mg of L-Arginine    | 4 g         |
| <b>Citrulline200</b>   | 200 mg of L-Citrulline   | 4 g         |
| <b>Citrulline1000</b>  | 1000 mg of L-Citrulline  | 4 g         |
| <b>Creatine5000</b>    | 5000 mg of Creatine      | 6 g         |
| <b>Cystine500</b>      | 500 mg of L-Cystine      | 4 g         |
| <b>Glycine500</b>      | 500 mg of L-Glycine      | 4 g         |
| <b>Isoleucine50</b>    | 50 mg of L-Isoleucine    | 4 g         |
| <b>Isoleucine1000</b>  | 1000 mg of L-Isoleucine  | 4 g         |
| <b>Leucine100</b>      | 100 mg of L-Leucine      | 4 g         |
| <b>Methionine100</b>   | 100 mg of L-Methionine   | 4 g         |
| <b>Phenylalanine50</b> | 50 mg of L-Phenylalanine | 4 g         |
| <b>Tyrosine1000</b>    | 1000 mg of L-Tyrosine    | 4 g         |
| <b>Valine50</b>        | 50 mg of L-Valine        | 4 g         |
| <b>Valine1000</b>      | 1000 mg of L-Valine      | 4 g         |

See page 109 for directions for use

\*Creatine5000 is 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    |       |
| Arginine500                        | 30 x 4 g packets   | 50600-0546-92 | B4155 |

| Nutrition Information | Units | 100 g | 4 g packet |
|-----------------------|-------|-------|------------|
| Calories              | kcal  | 370   | 15         |
| Protein equivalent    | g     | 10    | 0.4        |
| L-Arginine            | mg    | 12500 | 500        |
| Total Carbohydrate    | g     | 82.5  | 3.3        |
| Total Fat             | g     | 0     | 0          |

**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    |       |
| Citrulline200                      | 30 x 4 g packets   | 50600-0502-81 | B4155 |

| Nutrition Information | Units | 100 g | 4 g 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          |

**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    |       |
| Arginine2000                       | 30 x 4 g packets   | 50600-0502-67 | B4155 |

| Nutrition Information | Units | 100 g | 4 g packet |
|-----------------------|-------|-------|------------|
| Calories              | kcal  | 360   | 14         |
| Protein equivalent    | g     | 42.5  | 1.7        |
| L-Arginine            | mg    | 50000 | 2000       |
| Total Carbohydrate    | g     | 47.5  | 1.9        |
| Total Fat             | g     | 0     | 0          |

**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    |       |
| Citrulline1000                     | 30 x 4 g packets   | 50600-0550-95 | B4155 |

| Nutrition Information | Units | 100 g | 4 g packet |
|-----------------------|-------|-------|------------|
| Calories              | kcal  | 370   | 15         |
| Protein equivalent    | g     | 20    | 0.8        |
| L-Citrulline          | mg    | 25000 | 1000       |
| Total Carbohydrate    | g     | 72.5  | 2.9        |
| Total Fat             | g     | 0     | 0          |

**Ingredients:** Dried Glucose Syrup, L-Citrulline.

# 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    |       |
| Cystine500                         | 30 x 4 g packets   | 50600-0547-77 | B4155 |

| Nutrition Information | Units | 100 g | 4 g packet |
|-----------------------|-------|-------|------------|
| Calories              | kcal  | 370   | 15         |
| Protein equivalent    | g     | 10    | 0.4        |
| L-Cystine             | mg    | 12500 | 500        |
| Total Carbohydrate    | g     | 82.5  | 3.3        |
| Total Fat             | g     | 0     | 0          |

**Ingredients:** Dried Glucose Syrup, L-Cystine, 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    |       |
| Glycine500                         | 30 x 4 g packets   | 50600-0544-56 | B4155 |

| Nutrition Information | Units | 100 g | 4 g packet |
|-----------------------|-------|-------|------------|
| Calories              | kcal  | 370   | 15         |
| Protein equivalent    | g     | 10    | 0.4        |
| Glycine               | mg    | 12500 | 500        |
| Total Carbohydrate    | g     | 82.5  | 3.3        |
| Total Fat             | g     | 0     | 0          |

**Ingredients:** Maltodextrin, Glycine.

# 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    |       |
| Creatine5000                       | 30 x 6 g packets   | 50600-0503-04 | B4155 |

| Nutrition Information | Units | 100 g | 6 g 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          |

**Ingredients:** Creatine Monohydrate, Maltodextrin, 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    |       |
| Isoleucine50                       | 30 x 4 g packets   | 50600-0543-02 | B4155 |

| Nutrition Information | Units | 100 g | 4 g 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          |

**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    |       |
| Isoleucine1000                     | 30 x 4 g packets   | 50600-0551-18 | B4155 |

| Nutrition Information | Units | 100 g | 4 g packet |
|-----------------------|-------|-------|------------|
| Calories              | kcal  | 370   | 15         |
| Protein equivalent    | g     | 20    | 0.8        |
| L-Isoleucine          | mg    | 25000 | 1000       |
| Total Carbohydrate    | g     | 72.5  | 2.9        |
| Total Fat             | g     | 0     | 0          |

**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    |       |
| Methionine100                      | 30 x 4 g packets   | 50600-0554-40 | B4155 |

| Nutrition Information | Units | 100 g | 4 g packet |
|-----------------------|-------|-------|------------|
| Calories              | kcal  | 378   | 15         |
| Protein equivalent    | g     | 2.0   | 0.08       |
| L-Methionine          | mg    | 2500  | 100        |
| Total Carbohydrate    | g     | 92.5  | 3.7        |
| Total Fat             | g     | 0     | 0          |

**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    |       |
| Leucine100                         | 30 x 4 g packets   | 50600-0549-20 | B4155 |

| Nutrition Information | Units | 100 g | 4 g packet |
|-----------------------|-------|-------|------------|
| Calories              | kcal  | 378   | 15         |
| Protein equivalent    | g     | 2.0   | 0.08       |
| L-Leucine             | mg    | 2500  | 100        |
| Total Carbohydrate    | g     | 92.5  | 3.7        |
| Total Fat             | g     | 0     | 0          |

**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    |       |
| Phenylalanine50                    | 30 x 4 g packets   | 50600-0549-44 | B4155 |

| Nutrition Information | Units | 100 g | 4 g 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          |

**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    |       |
| Tyrosine1000                       | 30 x 4 g packets   | 50600-0547-91 | B4155 |

| Nutrition Information | Units | 100 g | 4 g packet |
|-----------------------|-------|-------|------------|
| Calories              | kcal  | 370   | 15         |
| Protein equivalent    | g     | 20    | 0.8        |
| L-Tyrosine            | mg    | 25000 | 1000       |
| Total Carbohydrate    | g     | 72.5  | 2.9        |
| Total Fat             | g     | 0     | 0          |

**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    |       |
| Valine1000                         | 30 x 4 g packets   | 50600-0551-32 | B4155 |

| Nutrition Information | Units | 100 g | 4 g packet |
|-----------------------|-------|-------|------------|
| Calories              | kcal  | 370   | 15         |
| Protein equivalent    | g     | 20    | 0.8        |
| L-Valine              | mg    | 25000 | 1000       |
| Total Carbohydrate    | g     | 72.5  | 2.9        |
| Total Fat             | g     | 0     | 0          |

**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    |       |
| Valine50                           | 30 x 4 g packets   | 50600-0543-33 | B4155 |

| Nutrition Information | Units | 100 g | 4 g 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          |

**Ingredients:** Dried Glucose Syrup, L-Valine.

# **PEDIATRIC 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 115 for directions for use

| Ordering/Reimbursement Information |           |                    |            |
|------------------------------------|-----------|--------------------|------------|
|                                    | Packaging | Reimbursement Code | HCPSC Code |
| Powder                             | 400 g can | 50600-0546-23      | B4154      |

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<br>(at 30 kcal/fl oz or<br>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                                                        |
| <b>VITAMINS</b>            |         |           |                                                           |
| Vitamin A                  | µg RE   | 110       | 22                                                        |
| Vitamin D                  | µg      | 9.8       | 2.0                                                       |
| Vitamin E                  | mg α TE | 4.8       | 1.0                                                       |
| Vitamin C                  | mg      | 65        | 13                                                        |
| Vitamin K                  | µg      | 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                 | µg      | 70        | 14                                                        |
| Vitamin B12                | µg      | 0.88      | 0.18                                                      |
| Pantothenic Acid           | mg      | 2.2       | 0.44                                                      |
| Biotin                     | µg      | 19        | 3.8                                                       |
| Choline                    | mg      | 140       | 28                                                        |
| Inositol                   | mg      | 26        | 5.2                                                       |
| <b>MINERALS</b>            |         |           |                                                           |
| 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                     | µg      | 85        | 17                                                        |
| Molybdenum                 | µg      | 7.1       | 1.4                                                       |
| Selenium                   | µg      | 17        | 3.4                                                       |
| Chromium                   | µg      | 8.4       | 1.7                                                       |
| <b>AMINO ACIDS</b>         |         |           |                                                           |
| 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 pediatric 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 106 for directions for use



### Ordering/Reimbursement Information

| Packaging                  | Reimbursement Code | HCP Code |
|----------------------------|--------------------|----------|
| Vanilla 15 x 200 ml bottle | 12539-0248-42      | B4154    |

**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, Oil from schizochytrium sp.\*, 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                  |
| Polysaturated Fat          | g              | 1.1        | 2.2                   |
| Linoleic acid              | mg             | 1000       | 2000                  |
| $\alpha$ -Linolenic acid   | mg             | 150        | 300                   |
| Docosahexaenoic Acid (DHA) | mg             | 40         | 80                    |
| <b>VITAMINS</b>            |                |            |                       |
| Vitamin A                  | $\mu$ g RE     | 39         | 78                    |
| Vitamin D                  | $\mu$ g        | 1.6        | 3.2                   |
| Vitamin E                  | mg $\alpha$ TE | 3.6        | 7.2                   |
| Vitamin C                  | mg             | 8.0        | 16                    |
| Vitamin K                  | $\mu$ g        | 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                 | $\mu$ g        | 25         | 50                    |
| Vitamin B12                | $\mu$ g        | 0.40       | 0.80                  |
| Pantothenic acid           | mg             | 0.60       | 1.2                   |
| Biotin                     | $\mu$ g        | 4.0        | 8.0                   |
| Choline                    | mg             | 40         | 80                    |
| <b>MINERALS</b>            |                |            |                       |
| 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                     | $\mu$ g        | 22         | 44                    |
| Molybdenum                 | $\mu$ g        | 8.8        | 18                    |
| Selenium                   | $\mu$ g        | 6.3        | 13                    |
| Chromium                   | $\mu$ g        | 3.1        | 6.2                   |
| <b>AMINO ACIDS</b>         |                |            |                       |
| L-Carnitine                | mg             | 4.0        | 8.0                   |

## **KETOGENIC DIET**



**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 a source of MCT.**

#### Features

- Suitable from 3 years of age
- 20% MCT emulsion providing 45 g MCT, 2 g LCT per bottle of 7.6 fl oz (225 ml)
- Can be incorporated into recipes for cooking and baking
- May be used to fortify enteral formula with a source of MCT
- Available in Unflavored

#### Osmolality

50 mOsm/kg

See page 117 for directions for use



#### Ordering/Reimbursement Information

| Packaging                    | Reimbursement Code | HCPCS Code |
|------------------------------|--------------------|------------|
| betaquik 15 x 225 ml bottles | 50600-0216-29      | B4155      |

#### 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.

**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.



**A powdered mixture of vitamins and minerals for use in the dietary management of restrictive therapeutic diets, such as the ketogenic diet and 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 118 for directions for use

#### Ordering/Reimbursement Information

| Packaging                   | Reimbursement Code | HCPCS Code |
|-----------------------------|--------------------|------------|
| FruitiVits 30 x 6 g packets | 50600-0513-25      | B4104      |

#### 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                  |
| <b>VITAMINS</b>    |         |           |                    |
| Vitamin A          | µg RE   | 7407      | 444                |
| Vitamin D          | µg      | 222       | 13                 |
| Vitamin E          | mg α TE | 137       | 8.2                |
| Vitamin C          | mg      | 592       | 36                 |
| Vitamin K          | µg      | 888       | 53                 |
| Thiamin            | mg      | 17        | 1.0                |
| Riboflavin         | mg      | 20        | 1.2                |
| Niacin             | mg      | 222       | 13                 |
| Vitamin B6         | mg      | 25        | 1.5                |
| Folic Acid         | µg      | 3555      | 213                |
| Vitamin B12        | µg      | 41        | 2.5                |
| Biotin             | µg      | 1659      | 100                |
| Pantothenic acid   | mg      | 69        | 4.1                |
| Choline            | mg      | 3704      | 222                |
| <b>MINERALS</b>    |         |           |                    |
| Sodium             | mg      | 45        | 2.7                |
| Potassium          | mg      | 180       | 10.8               |
| Chloride           | mg      | 20        | 1.2                |
| Calcium            | mg      | 11911     | 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             | µg      | 2504      | 150                |
| Molybdenum         | µg      | 1007      | 60                 |
| Selenium           | µg      | 607       | 36                 |
| Chromium           | µg      | 607       | 36                 |

**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.



**OTHER NUTRITIONALS**



**A chocolate flavored bar for the dietary management of conditions requiring a protein restricted diet.**

#### Features

- Suitable for a protein restricted diet
- Chocolate flavor
- Can be used in a variety of ways; serving suggestions are available on request.

See page 121 for more ideas.

#### Ordering/Reimbursement Information

|          | Packaging     | Reimbursement Code | HCPCS Code |
|----------|---------------|--------------------|------------|
| Vitabite | 7 x 25 g bars | n/a                | n/a        |

#### Nutrition Information

|                    | Units | per 25 g (1 bar) |
|--------------------|-------|------------------|
| Calories           | kcal  | 140              |
| Protein            | g     | 0                |
| Total Carbohydrate | g     | 15               |
| Sugars             | g     | 15               |
| Total Fat          | g     | 8                |
| Saturated Fat      | g     | 8                |

**Ingredients:** Lactose (Milk), Vegetable Oil (Palm Kernel, Palm, Shea Nut), Sugar, Natural and Artificial Flavor, Carob Flour, Soy Lecithin.

**Contains:** Milk and Soy.

## METABOLIC PRODUCTS: DIRECTIONS FOR 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 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 breast milk substitute.

### Preparation Guidelines

The product should be prepared immediately prior to feeding and any remaining product must be discarded if not used within 1 hour.

**IMPORTANT:** 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 the recommended concentration 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 with the recommended concentration 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 feed should be refrigerated and used within 24 hours. Re-shake before use.

### Pack Size

400 g (14.11 oz) can

### Preparation Guidelines

Measure the required number of scoops and add the amount of water recommended by the clinician or dietitian.

**To prepare 10 g PE:**

Measure 2 level scoops into glass/mixing cup.



Add approx. 135 ml (4.5 fl oz) of cold water.



Mix 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.

Each packet of gel provides 10 g protein equivalent.

### Important Notice

Must only be consumed by people with a proven metabolic disorder 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 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.

### Preparation Guidelines

For best results the product should be freshly prepared and used immediately.

IMPORTANT: Water or permitted drinks should be taken after product consumption.

### Storage

Store in a cool dry place. Gel packets are designed for single use. The product should be freshly prepared and consumed immediately.

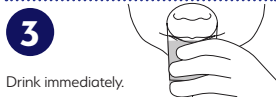
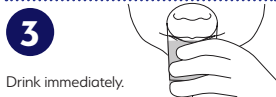
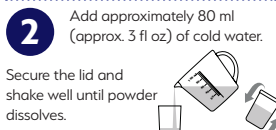
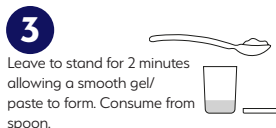
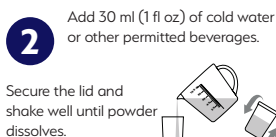
However, if this is not possible, all prepared products must be tightly covered and consumed within 6 hours at room temperature or within 24 hours if refrigerated.

### Pack Size

30 x 24 g (0.85 oz) packets

### Preparation Guidelines

#### for gel/paste



sphere<sup>®</sup><sub>20</sub>  
liquid

### 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 bottle of PKU sphere<sub>20</sub> liquid provides 20 g protein equivalent.

### Important Notice

Must only be consumed by people with proven Phenylketonuria (PKU) 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 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 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 to avoid separation.

### Pack Size

18 x 237 ml (8 fl oz) bottles

### Preparation Guidelines



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



# sphere<sup>®</sup>

## 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.

Each packet of sphere20 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 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.

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.

## Pack Size

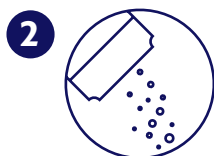
sphere15: 30 x 27 g (0.95 oz) packets

sphere20: 30 x 35 g (1.23 oz) packets

## Preparation Guidelines



Measure 120 ml (4 fl oz) of water for sphere20 into a cup with a lid.



Add one packet of sphere.



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

For best results the product should be freshly prepared and used immediately.

IMPORTANT: Water or permitted drinks should be taken after product consumption.

# express<sup>®</sup>

## 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 express15 provides 15 g protein equivalent.

Each packet of express20 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. express15 and express20 packets are designed for single use. The product should be freshly prepared and consumed immediately.

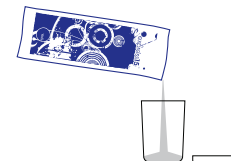
However, if this is not possible, all prepared products must be tightly covered and consumed within 6 hours at room temperature or within 24 hours if refrigerated.

## Pack Size

express15 – 30 x 25 g (0.88 oz) packets

express20 – 30 x 34 g (1.2 oz) packets

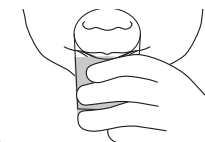
## Preparation Guidelines



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



2 Add approximately 80 ml (approx. 3 fl oz) of cold water or other permitted beverages. Secure the lid and shake well until powder dissolves.



3 Drink immediately.

For best results the product should be freshly prepared and used immediately.

IMPORTANT: 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 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.

IMPORTANT: 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.

IMPORTANT: 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.

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

### Pack Size

400 g (14.11 oz) can

### Preparation Guidelines

Measure the required number of scoops and add the amount of water recommended by the clinician or dietitian.

#### To prepare 5 g PE:



Measure 2 level scoops into glass/ mixing cup.



Add approximately 135 ml (4.5 fl oz) of cold water.



Mix 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.

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

50 x 12.5 g (0.44 oz) packets

### Preparation Guidelines

1



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

2



Add 100 ml (3.4 fl oz) of cold water or other permitted beverages.

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.

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 also be used in cooking and baking.

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 GLYCSADE 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.S20 prepared to a final volume of 200 ml gives a 20% carbohydrate solution.

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.S20 is recommended from 2 years of age and 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.S20 – 30 x 42 g (1.48 oz) packets

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:**

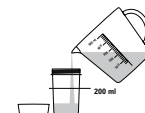
1

Empty 1 packet of S.O.S into a measuring cup with lid.



2

Add the required amount of 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 feed 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 |
|------------------------|--------------------------|-------------|
| <b>Arginine500</b>     | 500 mg of L-Arginine     | 4 g         |
| <b>Arginine2000</b>    | 2000 mg of L-Arginine    | 4 g         |
| <b>Citrulline200</b>   | 200 mg of L-Citrulline   | 4 g         |
| <b>Citrulline1000</b>  | 1000 mg of L-Citrulline  | 4 g         |
| <b>Creatine5000</b>    | 5000 mg of Creatine      | 6 g         |
| <b>Cystine500</b>      | 500 mg of L-Cystine      | 4 g         |
| <b>Glycine500</b>      | 500 mg of L-Glycine      | 4 g         |
| <b>Isoleucine50</b>    | 50 mg of L-Isoleucine    | 4 g         |
| <b>Isoleucine1000</b>  | 1000 mg of L-Isoleucine  | 4 g         |
| <b>Leucine100</b>      | 100 mg of L-Leucine      | 4 g         |
| <b>Methionine100</b>   | 100 mg of L-Methionine   | 4 g         |
| <b>Phenylalanine50</b> | 50 mg of L-Phenylalanine | 4 g         |
| <b>Tyrosine1000</b>    | 1000 mg of L-Tyrosine    | 4 g         |
| <b>Valine50</b>        | 50 mg of L-Valine        | 4 g         |
| <b>Valine1000</b>      | 1000 mg of L-Valine      | 4 g         |

**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.

**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  
Creatine5000 – 30 x 6 g (0.21 oz) packets

**Preparation Guidelines**

To be determined by the clinician or dietitian.

**Important Notice**

Must only be used under strict medical supervision.

Not for intravenous use.

For enteral use only.

Not for use as a sole source of nutrition.

## PEDIATRIC KIDNEY DISEASE: DIRECTIONS FOR 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.

### 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).

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



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 Renastart to the water, leveling off each scoop with the back of a clean dry knife. Return dry scoop to Renastart 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.



Renastart 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 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**



### 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.

Best served chilled.

Further serving suggestions and recipes for betaquik 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.

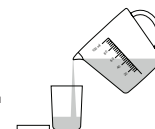
### Pack Size

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.



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.

**OTHER NUTRITIONALS:  
DIRECTIONS FOR USE**



### Dosage and Administration

For use under medical supervision in the dietary management of conditions requiring a protein restricted diet.

For enteral use only.

Not for use as a sole source of nutrition.

### Preparation Guidelines

Vitabite can be easily incorporated into a protein restricted diet in a variety of ways. Serving suggestions are available on request.

### Storage

Store in a cool dry place. Once opened, consume within 4 weeks.

Pack Size

7 x 25 g (0.88 oz) bars

### Serving suggestions:

**Melting Vitabite** — Break up into a bowl, then either microwave or place over a pan of boiling water (carefully!) and stir until melted.

**Vitabite shapes** — Pour into different moulds, refrigerate for 1 hour and turn out when set.

**Vitabite crispy cakes** — Mix with permitted amount of cereal, spoon into cupcake baking cups and leave to cool.

**Vitabite buttons** — Using a teaspoon, drip small drops onto a nonstick tray and leave to set in the refrigerator.

**Vitabite cookies** — Coat or use as a filling for permitted cookies and cakes, leave in a cool place until set.

**Vitabite fruits** — Coat small pieces of fresh fruit and make a special dessert.

**Vitabite Popsicle** — Great for sunny days. Simply dip the permitted Popsicle into the melted Vitabite to coat and then keep in the freezer for a treat.

Vitabite can also be grated and used to decorate low protein desserts or cakes. For the best results refrigerate the Vitabite before grating.

## WEIGHTS & HOUSEHOLD MEASUREMENTS

| Product Name               | Presentation                                                  | Displacement factor<br>ml displaced by<br>1 gram powder | Product yield<br>approximate final<br>volume (L) | 1 level scoop<br>approximate<br>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       |
| LIPiStart                  | 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                                             | 0.74 ml/g                                               | 1 can yields 2                                   | 7                                          | 2.4            | 7.3              | 31          | 40          | 58          | 120       |
| explore 5 & 10             | Powder, single serve packet,<br>5 or 10 g protein equivalent  | 0.63 ml/g                                               | —                                                | —                                          | —              | —                | —           | —           | —           | —         |
| gel                        | Powder, single serve packet,<br>10 g protein equivalent       | 0.63 ml/g                                               | —                                                | —                                          | —              | —                | —           | —           | —           | —         |
| sphere 15 & 20             | Powder, single serve packet,<br>15 or 20 g protein equivalent | 0.57 ml/g                                               | —                                                | —                                          | —              | —                | —           | —           | —           | —         |
| express 15 & 20            | Powder, single serve packet,<br>15 or 20 g protein equivalent | 0.6 ml/g                                                | —                                                | —                                          | —              | —                | —           | —           | —           | —         |
| MCT procal                 | 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, 42 or 52 g single<br>serve packet                     | 0.8 ml/g                                                | —                                                | —                                          | —              | —                | —           | —           | —           | —         |
| Single Dose<br>Amino Acids | Powder, single<br>serve packet                                | 0.8 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 Vitaflo provides are based on averages derived from multiple measurements. Vitaflo recommends using a gram scale for greatest accuracy. The scoop Vitaflo provides has been validated with Vitaflo products, so using it is preferable to household measurements.



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**The Vitaflo in Association with You (VIA) education hub offers healthcare professionals up-to-date resources to support the nutrition management of individuals with rare diseases. In collaboration with experts around the globe, we provide product and condition-specific clinical resources, as well as, programs for Continuing Professional Education (CPE) for Registered Dietitian Nutritionists practicing in the US.**



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**NOTE:** Products included herein are foods intended for the dietary management of medical conditions as indicated in the table of contents. At the time of publication, every effort was made to confirm that all product information was accurate. It is, however, subject to change. The most current information can always be obtained by referring to the package label, or contacting Vitaflo. The contents of this product guide are for informational purposes only and are not intended to be a substitute for medical advice or clinical judgement. All products are for use under medical supervision.

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