


Hilmar™ 8800 Alpha-Lactalbumin Enriched Whey Protein Concentrate

Hilmar™ 8800 Alpha-lactalbumin enriched whey protein concentrate is derived from sweet whey by a patented process that enables the enrichment of the alpha-lactalbumin fraction. Hilmar™ 8800 is designed for a variety of food and nutritional applications especially nutritional supplement formulations and sports nutrition products.

FEATURES / BENEFITS

- High Digestibility
- High Heat Stability
- Highly Soluble
- Minimal Carbohydrate Levels
- Low Glycemic Index
- Superior Protein Source
- Excellent Amino Acid Profile
- Low Mineral Content
- Non GMO (our products are not manufactured with genetically engineered components)

FOOD SAFETY & CERTIFICATION

- Produced in a GFSI-Certified Facility
- Kosher  and Halal Certified
- EU Compliant

NUTRITIONAL VALUES

| Composition | Typical | Specification | Test Method |
|-----------------------------|---------|---------------|------------------|
| Protein (% as is) | 78.0 | 72.5 min | AOAC |
| Alpha-lactalbumin | 30.0 | 28.0 min | |
| Beta-lactoglobulin | 18.0 | | |
| Lactose (%) | 1.5 | 20.0 max | AOAC |
| Fat (%) | 12.0 | 15.0 max | AOAC |
| Moisture (%) | 4.5 | 6.0 max | AOAC |
| Ash (%) | 3.3 | 5.5 max | AOAC |
| pH | | 6.5-7.1 | 10% Sol. at 20°C |
| Scorched Particles (mg/25g) | 7.5 | 7.5 | SMEDP |

| Microbiology | Specification | Test Method |
|----------------------------------|---------------|-------------|
| APC (CFU/g) | 10,000 max | AOAC |
| Coliforms (CFU/g) | <10 | AOAC |
| <i>E. Coli</i> (CFU/g) | <10 | AOAC |
| Salmonella (750g) | Negative | AOAC |
| Yeast (CFU/g) | 50 max | AOAC |
| Mold (CFU/g) | 50 max | AOAC |
| Coagulase Positive Staph (CFU/g) | <10 | AOAC |
| Listeria (25g) | Negative | AOAC |

| Other Nutritional Information | Typical |
|--------------------------------|---------|
| Cholesterol (mg/100g) | 565 |
| Total Calories (Kcal/100g) | 405 |
| Biological Value (BV) | 104 |
| PDCAAS | 1 |
| Protein Efficiency Ratio (PER) | 3.2 |
| Net Protein Utilization (NPU) | 92 |
| Protein Digestibility | 95 |

| MINERALS | Typical |
|----------------------|---------|
| Sodium (mg/100g) | 60 |
| Calcium (mg/100g) | 3 |
| Potassium (mg/100g) | 1,440 |
| Phosphorus (mg/100g) | 395 |
| Magnesium (mg/100g) | 1 |
| Chloride (mg/100g) | 125 |
| Iron (mg/100g) | 1.3 |



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TYPICAL AMINO ACID PROFILE

Amino acids represented as g/100g of product

| | |
|------------------|------|
| Alanine | 3.1 |
| Arginine | 2.8 |
| Aspartic Acid | 9.7 |
| Cystine/Cysteine | 2.3 |
| Glutamic Acid | 12.1 |
| Glycine | 2.2 |
| Histidine | 1.9 |
| Hydroxyproline | <0.1 |
| Isoleucine*□ | 4.5 |
| Leucine*□ | 7.9 |
| Lysine* | 7.6 |
| Methionine* | 1.3 |
| Phenylalanine* | 3.2 |
| Proline | 4.0 |
| Serine | 4.6 |
| Threonine* | 5.1 |
| Tryptophan* | 2.1 |
| Tyrosine | 3.0 |
| Valine*□ | 4.3 |

* Essential Amino Acids

□ Branched-Chain Amino Acids (BCAA)

TYPICAL FATTY ACID PROFILE

Fatty acids represented as g/100g of product

| | |
|----------------------------|------|
| Saturated Fatty Acid | 4.10 |
| Monounsaturated Fatty Acid | 2.00 |
| Polyunsaturated Fatty Acid | 0.60 |
| Trans Fatty Acid | 0.35 |

PHYSICAL CHARACTERISTICS

Hilmar™ 8800 Alpha-Lactalbumin enriched WPC is a spray-dried, cream colored powder, with a bland flavor profile. It is highly soluble. It also has good heat stability and excellent emulsifying properties.

PACKAGING

44.09 lb. (20 kg) heat-sealed, multi-wall kraft bag with inner polyethylene bag liner. Twenty-four bags per pallet.

STORAGE / SHELF LIFE

Shelf life is two years from the date of manufacture in its original sealed packaging, through ideal storage conditions, which include temperatures below 25° C, relative humidity lower than 75%, and an odor-free environment.

RECOMMENDED LABEL

Whey Protein Concentrate

ORDERING INFORMATION

| PART CODE | SHIPPING POINT |
|-----------|----------------|
| 200060 | Hilmar, CA USA |

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