

Hilmar™ 8350 Whey Protein Hydrolysate

Hilmar™ 8350 is an 80% whey protein hydrolysate designed for nutritional supplements, sports nutrition applications and medical nutritionals. It is derived from fresh, sweet dairy whey processed by a special cross-flow filtration process. The concentrate is then enzymatically hydrolyzed to produce a mixture of peptides and free amino acids for enhanced nutritional and functional benefits.

FEATURES / BENEFITS

- High Digestibility
- Heat Stable
- Highly Soluble
- Minimal Carbohydrate Levels
- Low Glycemic Index
- High Acid Solubility/Stability
- Superior Protein Source
- Excellent Amino Acid Profile
- Low Mineral Content
- GMO Free
- Kosher  and Halal Approved
- EU Approved

APPLICATIONS

- RTD Beverages
- Acid Beverages
- Protein Bars
- Nutritional Fortification
- Medical Nutrition

NUTRITIONAL VALUES

Composition	Typical	Specification
Protein (% dry basis)	81.0	80.0 min
Protein (% as is)	78.0	77.0 min
Lactose (%)	3.0	7.0 max
Fat (%)	5.2	7.0 max
Moisture (%)	3.5	5.5 max
Ash (%)	5.0	6.0 max

Microbiology	Typical	Specification
SPC (cfu/g)	<1,000	10,000 max
Coliforms (MPN/g)	<3	<10 max
<i>E. Coli</i> (MPN/g)	<3	<3 max
Salmonella (25g)	Negative	Negative
Yeast (cfu/g)	<10	50 max
Mold (cfu/g)	<10	50 max

Other Nutritional Information	Typical
Cholesterol (mg/100g)	204
Total Calories (Kcal/100g)	386
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)	680
Calcium (mg/100g)	500
Potassium (mg/100g)	1,300
Phosphorus (mg/100g)	340
Magnesium (mg/100g)	60
Chloride (mg/100g)	150
Iron (mg/100g)	1



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TYPICAL AMINO ACID PROFILE

Amino acids represented as g/100g of product

Alanine	3.6
Arginine	2.5
Aspartic Acid	8.6
Cystine/Cysteine	1.7
Glutamic Acid	13.4
Glycine	1.5
Histidine	1.5
Hydroxyproline	<0.1
Isoleucine*□	4.8
Leucine*□	9.0
Lysine*	7.2
Methionine*	1.7
Phenylalanine*	2.6
Proline	5.7
Serine	4.8
Threonine*	5.0
Tryptophan*	1.3
Tyrosine	2.3
Valine*□	4.5

* Essential Amino Acids □ Branched-Chain Amino Acids (BCAA)

TYPICAL FATTY ACID PROFILE

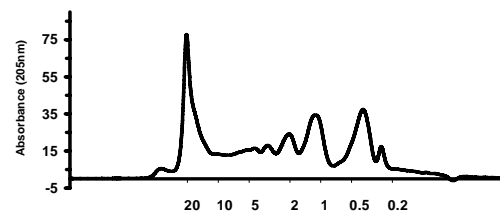
Fatty acids represented as g/100g of product

Saturated Fatty Acid	2.24
Monounsaturated Fatty Acid	1.05
Polyunsaturated Fatty Acid	0.32
Trans Fatty Acid	0.14

MOLECULAR WEIGHT DISTRIBUTION AND PEPTIDE PROFILE

		Typical
AN/TN		12.5%
Daltons		%
>20,000		17.0
5,000-20,000		15.6
1,000-5,000		26.7
<1,000		40.5

PEPTIDE PROFILE



PHYSICAL CHARACTERISTICS

Hilmar™ 8350 is a spray-dried, cream-colored powder. It is homogeneous, free flowing and non-caking.

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. Shelf life will be enhanced through ideal storage conditions, which include temperatures below 25° C, 75% relative humidity, and an odor-free environment. Stocks should be used in rotation, preferably within twelve months.

RECOMMENDED LABEL

Whey Protein Hydrolysate

ORDERING INFORMATION

PART CODE	FOB
200011	Hilmar, CA USA

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Hilmar Ingredients is a division of Hilmar Cheese Company

Product of USA

We deliver the promise of dairy.™