

## Hilmar™ 8380 Whey Protein Hydrolysate

Hilmar™ 8380 is an 80% whey protein hydrolysate designed for nutritional supplements and tablets, 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

- Good Compressibility
- Excellent Flow Properties
- 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
- Non GMO (our products are not manufactured with genetically engineered components)

### APPLICATIONS

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

### FOOD SAFETY & CERTIFICATION

- Produced in a GFSI-Certified Facility
- SEDEX Approved
- Kosher  and Halal Approved
- EU Approved

### NUTRITIONAL VALUES

Composition	Typical	Specification	Test Method
Protein (% dry basis)	80.5	80.0 min	Calculation
Protein (% as is)	77.0	77.0 min	AOAC
Lactose (%)	3.0		AOAC
Fat (%)	5.0	7.0 max	AOAC
Moisture (%)	3.5	5.0 max	AOAC
Ash (%)	5.0	6.0 max	AOAC
pH		7.0-7.6	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)	210
Total Calories (Kcal/100g)	380
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)	650
Calcium (mg/100g)	510
Potassium (mg/100g)	1,250
Phosphorus (mg/100g)	450
Magnesium (mg/100g)	60
Chloride (mg/100g)	130
Iron (mg/100g)	0.7



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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

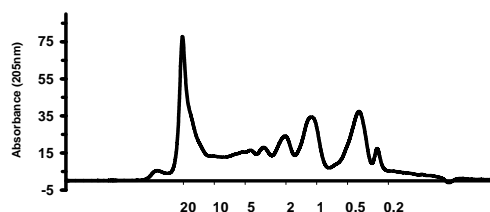
Fatty acids represented as g/100g of product

Saturated Fatty Acid	2.00
Monounsaturated Fatty Acid	1.00
Polyunsaturated Fatty Acid	0.30
Trans Fatty Acid	0.15

## 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™ 8380 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 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. Stocks should be used in rotation, preferably within twelve months.

## RECOMMENDED LABEL

Whey Protein Hydrolysate

## ORDERING INFORMATION

PART CODE	SHIPPING POINT
200090	Hilmar, CA USA

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We deliver the promise of dairy.™