


Hilmar™ 9020 Whey Protein Isolate

Hilmar™ 9020 is a whey protein isolate derived from sweet dairy whey and manufactured by a special cross-flow filtration process. It has superior nutritive value and is ideally suited for protein fortification and use in low pH beverages.

FEATURES / BENEFITS

- Clear in Solution
- Excellent Acid Solubility/Stability
- Heat Stable During Pasteurization
- Foam Stability
- High Digestibility
- Superior Protein Source
- Excellent Amino Acid Profile
- Low Glycemic Index
- Low Fat and Lactose
- 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 (% dry basis)	93.5	90.0 min	Calculation
Protein (% as is)	89.5	86.0 min	AOAC
Lactose (%)	1.5		AOAC
Fat (%)	0.5	1.5 max	AOAC
Moisture (%)	4.5	6.0 max	AOAC
Ash (%)	1.1	3.0 max	AOAC
pH	3.4	4.5 max	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)	5
Total Calories (Kcal/100g)	370
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)	19
Calcium (mg/100g)	46
Potassium (mg/100g)	48
Phosphorus (mg/100g)	241
Magnesium (mg/100g)	7
Chloride (mg/100g)	1210
Iron (mg/100g)	0.3



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TYPICAL AMINO ACID PROFILE

Amino acids represented as g/100g of product

Alanine	4.9
Arginine	2.1
Aspartic Acid	10.3
Cystine/Cysteine	2.4
Glutamic Acid	16.6
Glycine	1.6
Histidine	1.5
Hydroxyproline	<0.1
Isoleucine*□	6.4
Leucine*□	9.9
Lysine*	9.5
Methionine*	2.1
Phenylalanine*	2.8
Proline	5.8
Serine	4.4
Threonine*	6.7
Tryptophan*	2.0
Tyrosine	2.8
Valine*□	5.2

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

TYPICAL FATTY ACID PROFILE

Fatty acids represented as g/100g of product

Saturated Fatty Acid	0.15
Monounsaturated Fatty Acid	0.05
Polyunsaturated Fatty Acid	0.10
Trans Fatty Acid	<0.01

PHYSICAL CHARACTERISTICS

Hilmar™ 9020 is a spray-dried, cream-colored powder with a bland flavor profile. It is homogeneous, free flowing and non-caking.

PACKAGING

44.09 lb. (20 kg) heat-sealed, bag-in-bag with multi-wall kraft bag outer and polyethylene inner bag liner. Outer kraft bag is recyclable. 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 Isolate

ORDERING INFORMATION

PART CODE	SHIPPING POINT
200083	Dalhart, TX USA

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We deliver the promise of dairy.SM