

INPRO 90 HS

Heat Stable 90% Whey Protein Isolate

□ **PRODUCT DESCRIPTION:**

INPRO 90 HS is a whey protein isolate manufactured using a proprietary technique that provides a heat stable product. This product is suitable for ready-to-drink applications (RTD's) requiring high processing temperatures.

□ **PHYSICAL PROPERTIES:**

Flavour/Odour	Clean and bland
Colour	White to light cream
Scorched Particle	25 g shall not exceed the ADMI scorched particle chart A disk

□ **ANALYTICAL PROPERTIES:**

Protein (N x 6.38) Dry Basis	91.0% Min.
Lactose	0.5% Max.
Moisture	5.0% Max.
Fat	1.0% Max.
Ash	2.5% Max.
pH (10% solution)	2.9 – 3.3

□ **MICROBIOLOGICAL STANDARDS:**

Standard Plate Count	10,000 CFU/g Max.
Enterobacteriaceae	10 CFU/g Max.
E. coli	Absent in 1 g
Yeast and Mold	50 CFU/g Max.
Salmonella	Absent in 50 g
<i>Staphylococcus aureus</i>	10 CFU/g Max.

□ **TYPICAL AMINO ACID PROFILE:**

Amino Acid	g/100g protein
Alanine (Ala)	5.21
Arginine (Arg)	1.87
Aspartic Acid (Asp)	10.88
Cystine (Cys)	2.41
Glutamic Acid (Glu)	17.15
Glycine (Gly)	1.75
Histidine (His)	1.57
Isoleucine (Ile)	5.64
Leucine (Leu)	10.88
Lysine (Lys)	9.33
Methionine (Met)	2.45
Phenylalanine (Phe)	3.07
Proline (Pro)	5.82
Serine (Ser)	4.91
Threonine (Thr)	6.99
Tryptophan (Trp)	1.58
Tyrosine (Tyr)	3.40
Valine (Val)	<u>5.09</u>
	100.00

□ **TYPICAL MINERAL PROFILE:**

Calcium	<50.0 mg/100g
Iron	2.0 mg/100g
Magnesium	6.3 mg/100g
Manganese	0.4 ppm
Phosphorous	<2000.0 mg/100g
Potassium	<50.0 mg/100g
Selenium	<0.4 mg/100g
Sodium	8.3 mg/100g
Zinc	0.3 ppm

□ **PACKAGING AND STORAGE:**

- 20 Kg (44.1 Lbs.) multi-walled paper bag with a sealed polyethylene liner.
- Extended storage should be 15°C or lower. A cool, dry, and clean storage area is recommended.

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Non Warranty: Information provided is given in good faith. However, no warranty, guarantee or freedom from patent infringement is implied or inferred. Vitalus's products are sold with the understanding that the purchaser will conduct tests to determine the suitability of these products for their particular use.

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