



PRODUCT DATA SHEET (PROVISIONAL)

PRODUCT: PeptoPro[®] Casein Hydrolysate

PRODUCT DESCRIPTION: PeptoPro[®] is a highly hydrolyzed enzymatic digest of casein manufactured utilizing a proprietary mix of enzymes to provide a high quality source of peptides with excellent taste. High levels of di and tri peptides in combination with a low level of free amino acids provide PeptoPro[®] with excellent nutritional value, instant solubility and low levels of bitterness. PeptoPro[®] is a light colored, free flowing, spray dried powder. 92% of the powder will pass through a 500-micron screen.

APPLICATIONS: Protein enrichment of food and beverages

VISUAL:

Color	White to Light Cream	Flavor/Odor	Bland/Clean
Sediment	Not present	Particle Size	92% through 500 µ
Bulk Density	> 230 g/l	Dust (< 50 µ)	< 1.0 %
		Turbidity (5% w/w sol'n)	< 20 Nephla meter pts

CHEMICAL DATA (%) – Typical Data:

Total Nitrogen (TN)	>12.5%	Sodium *	1.2%
Amino Nitrogen (AN)	>2.5%	Potassium *	0.07%
AN/TN ratio	20-25%	Calcium *	0.05%
Free Amino Acids *	<5%	Chloride *	0.18%
Protein	>85%	Hydrolysis *	20-25%
Moisture	<5%		
Fat *	<1%	<u>Molecular Weight Distribution *</u>	
Lactose *	<1%	> 5kDa	<1%
Ash	<9%	1-5kDa	5-10%
pH (5% w/w solution)	4-5%	< 1kDa	10-85%

* Average Data Based On Regular Monitoring

AMINO ACID DISTRIBUTION – Typical Data (g/kg):

Alanine	30.3	Lysine	84.8
Arganine	38.3	Methionine	34.3
Asparagine	67.4	Phenylalanine	54.5
Cysteine	7.3	Proline	105.7
Glutamine	225.0	Serine	58.9
Glycine	22.5	Threonine	44.1
Histidine	32.6	Tryptophane	14.3
Isoleucine	52.5	Tyrosine	59.8
Leucine	98.4	Valine	68.0

MICROBIOLOGICAL DATA

Total Viable Count	<10,000 cfu/g	Salmonella	Negative in 25g
Yeast	< 50 cfu/g	St. aureus	Negative in 1g
Moulds	< 50 cfu/g	Listeria monocytogenes	Negative in 25g
Coliforms	Negative in 1g	B. cereus	<10 cfu/g

PACKAGING & STORAGE

PeptoPro[®] is packed in 15kg food grade, polyethylene lined, multiwall, Kraft paper bags. A Euro pallet contains 30 bags and is stretch-wrapped. A shelf life of 24 months is expected for unopened bags (based on ongoing stability studies), stored under dry (below 65% relative humidity) and cool (below 25°C) conditions, away from odor producing materials. Use stock in rotation.

Information contained in this sheet is believed to be accurate and is offered in good faith for the benefit of the customer. We, however, cannot assume any guarantee against patent infringement, liabilities or risks involved from the use of these products, formulas and information. The product is protected by at least one of the following patent applications: EP-A-1383393 and US application SN.10/433,747; EP-A-1339837 and US application SN.10/450,185. This document is a non-controlled document and will not automatically be replaced when updated.