

TECHNICAL DATA SHEET

Article no. : 9754.0500

PEPTONE FROM CASEIN

SPECIFICATION

Culture Media Ingredient.

DESCRIPTION

Casein Pancreatic Peptone is a protein hydrolysate, obtained by digestion with pancreatic enzyme extracts. It differs from Tryptone only in the way it is obtained, which produces a different amino acid composition with the majority being of a smaller molecular size. It is the most commonly used peptone in industrial fermentation processes. Among the raw materials used in its preparation the bovine constituents (Milk casein) belong to the category C according to "Note for Guidance"" EMEA/410/01 Rev. 3"". The Milk casein is sourced from New-Zealand, and comes from the herds declared free from Bovine Spongiform Encephalopathy and Foot-and-Mouth disease after examination by the Veterinary Authorities.

The product does not contain and is not derived from specified risk material as defined in the European Commission Decision 97/534/EC. Also it complies with the General Monograph 1483 on ""Products with Risk of Transmitting Agents of Animal Spongiform Encephalopathies"" in the current European Pharmacopoeia.Other constituents used are of porcine origin. The manufacturing process includes boiling at 100°C for a minimum of 5 minutes and instantaneous heating at 170°C minimum on spray drying.(Note: These parameters can be changed and specified in the Certificate of Analysis for each batch). Finally, it's according with Reg. (EC) N° 1069/2009 for the manufacturing of intermediate and pharmaceutical products.

PHYSICO-CHEMICAL CHARACTERISTICS

Appearance powder	Yellow to beige
Solubility in water 2 %	Total
Stability after autoclaving	
Loss on drying (% Moisture)	≤ 6,00
pH after autoclaving (solution 2%)	6,5 -7,5
Total Nitrogen TN (% w/w)	> 10.00
Amino Nitrogen AN (% w/w)	> 3.9
AN/TN x100	
Chlorides (NaCl)(%)	≤ 1.00
Residue on ignition (%)	≤ 17,00

MICROBIOLOGICAL LIMITS

Total aerobic microbial count	< 10000 CFU/g
Coliforms	< 10 CFU/g
Moulds and yeasts	< 100 CFU/g
Staphylococcus aureus	absent in 10 g
Escherichia coli	absent in 10 g
Salmonella spp	absent in 25 g



Th. Geyer GmbH & Co. KG Domierstr. 4 – 6 D-71272 Renningen Tel: +49 7159 1637-0 Fax: +49 7159 1637-710 renningen@thgeyer.de www.thgeyer.de

BW-Bank (Swift/BIC SOLADEST600) IBAN DE85600501010002036302 Postbank Stuttgart (Swift/BIC PBNKDEFFXXX) IBAN DE3280010070000020708 Deutsche Bank (Swift/BIC DEUTDESSXXX) IBAN DE06600700700125518100 St.-Nr. 70093/40018 / USt-IdNr. DE147510304 Amtsgericht Stuttgarf / HRA-Nr. 254140 Persönlich haftende Gesellschaftrein: Geyer Beteiligungsgesellschaft mbH Amtsgericht Stuttgarf / HRB-Nr. 252035 Geschäftschner. Lutz-Alexander Geyer / Oliver-Alexander Geyer / André Meise / Ralf Streicher



AMINO ACIDS (Total g/100 g)

Alanine	2.91	Isoleucine		Valine	5.51
Arginine	3.30	Proline		Lysine	6.60
Aspartic acid	6.99	Serine	5.08	Methionine	
		Threonine		Histidine	2.38
Glutamic aicid		Tryptophan	0.95	Leucine	7.62
Glycine	1.86	Tyrosine		Phenylalanine	4.11

STORAGE

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).



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