ACID CASEIN PEPTONE

Cat. No. 372 | MI-AC-738 | Version: 5
Date: 14/03/2025

BIOTECNICA
THE PEPTONE COMPANY

PRODUCT DESCRIPTION:

Acid Casein Peptone is an acid hydrolisate of casein. This process destroys glutamine, asparagines, tryptophan, cysteine, serine, threonine, lysine, aspartic acid, proline racemises amino acids and completely destroys vitamins.

POTENCIAL APPLICATIONS:

As this peptone is free from vitamins, it is used for the determination of vitamin content by microbiological methods. It has a good solubility and clarity. It is a raw material to prepare Müller Hinton Agar and broth.

PHYSICAL CHARACTERISTICS:

Fine powder, cream to yellow colored and no foreign particles.

Chemical Characteristics	Specifications	Typical Value
Amino Nitrogen (AN)	Minimum 4,00%	4.95%
Total Nitrogen (TN)	Minimum 7,50%	7.95%
AN/TN Ratio	N/A	62.26
Loss on drying	Maximum 6,00%	3.30%
Ash	Maximum 45,00%	33.10%
pH (2% solution)	6,00 – 7,50	7.00

Microbiological Characteristics	Specifications
Standard plate count	Less than 5000 CFU/g
Yeasts and molds	Less than 100 CFU/g
Coliforms	Negative
Salmonella	Negative

Sensitivity test with antibiotics on Muller Hilton agar: Satisfactory

Bacterial	ATCC	Antibiotics
Staphylococcus aureus	25923	Trimetoprim/Sulfametoxazol
Pseudomonas aeruginosa	27853	Gentamicina (10 µg)
Enterococcus faecalis	29212	Trimetoprim/Sulfametoxazol

PACKAGING

The dry product is packaged in polyethylene bags into reinforced fiber board drums.
25 kg | 50 kg

STORAGE

Keep in original packaging closed, in a dry and cool place. Hygroscopic product.

RETEST

5 years after its manufacturing date.

CERTIFICATIONS

ISO 9001
SADER-SENASICA

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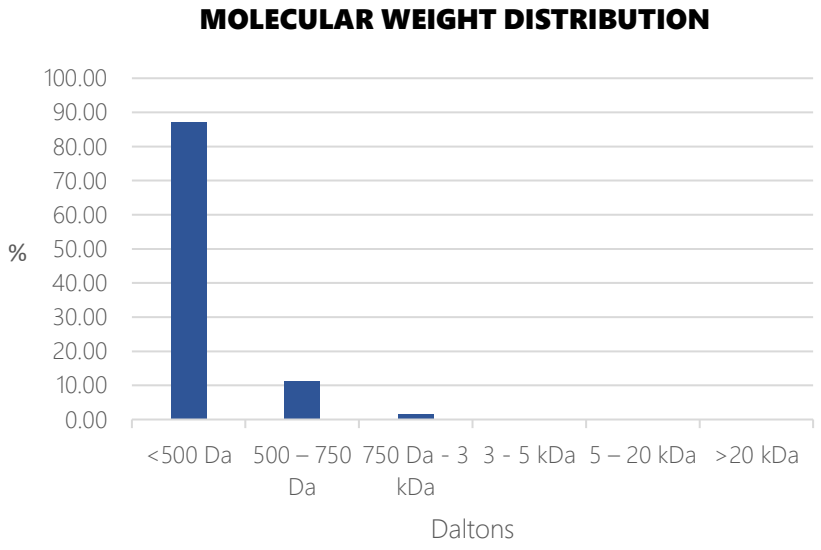
Molecular weight distribution	%
<500 Da	87.20
500 – 750 Da	11.30
750 Da - 3 kDa	1.50
3 - 5 kDa	0.00
5 – 20 kDa	0.00
>20 kDa	0.00
Average Molecular Weight Da	211.00



Amino acid	g/100g
Glutamic acid	13.48
Proline	7.23
Leucine	5.47
Lysine	4.73
Aspartic acid	4.14
Valine	3.66
Isoleucine	3.14
Serine	2.84
Phenylalanine	2.67
Threonine	2.23
Arginine	2.17
Tyrosine	1.97
Alanine	1.78
Methionine	1.66
Histidine	1.61
Glycine	1.09
Cystine	0.19
Tryptophan	<0,01