

Bacteriological Peptone

Cat. 1616

Enzymatic digest of animal origin that is used as an ingredient in culture media.

Practical information

Applications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Bacteriological Peptone is a high-quality hydrolysate produced by the enzymatic digestion of animal tissues. Enzymatic digestion produces amino acids, including essential amino acids and peptides, the enzymes normally used are trypsin and pepsin.

It is widely used in culture media and has been used extensively in the production of toxins, vaccines and other biological products.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>2,7 %	3,5 %
Total nitrogen (TN)	>10,0 %	15,48 %
Loss on drying	<6 %	3,00 %
AN/TN Ratio	N/A	22,6 %
Ash	<15 %	4,2 %
pH (2% solution)	6,5-7,5	6,9

Elemental profile

Descripción	Value
Calcium	0,018%
Potassium	1,10%
Sodium	0,97%
Magnesium	0,01%

Amino acids

Total (g/100g)		Total (g/100g)		Total (g/100g)	
Arginine	7,16	Valine	2,31	Leucine	2,84
Aspartic acid	6,34	Glicine	20,60	Fenilalanine	1,88
Cystine	0,13	Tryptophan	0,06	Serine	3,45
Glutamic acid	9,58	Alanine	7,89	Isoleucine	2,63
Histidine	0,89	Lisine	3,61	Proline	11,46
Methionine	0,85	Tirosine	0,71	Treonine	1,87

Growth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

Description	Specification
Coliforms	Negative
Salmonella	Negative
Yeasts and molds	<100 CFU/g
Standard plate count	<5.000 CFU/g

Storage

Temp. Min.:2 °C
Temp. Max.:25 °C