

Polypeptone

Cat. 1610

Mixture of peptones source of amino acids and vitamins for the cultivation of microorganisms.

Practical information

Applications	Categories
Nitrogen source	General use

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Polypeptone is a mixture of peptones made up of equal parts of pancreatic digest of casein and peptic digest of animal tissue. Includes the high content of amino acids and small polypeptides characteristic of peptic digest of animal tissue. Polypeptone provides nitrogen, amino acids and vitamins in microbiological culture. It can be used in general culture media as a superior source of nutrients. The growth of some microorganisms may be better than when the individual peptones are used.

Physical-chemical characteristics

Description	Specification	Typical Analysis
Amino nitrogen (AN)	>3,7%	4,10%
Total nitrogen (TN)	>10,0%	13,12%
Loss on drying	<6%	3,40%
AN/TN Ratio	N/A	31,3%
Ash	<15%	8,80%
pH (2% solution)	6,5-7,5	6,8

Elemental profile

Descripción	Value
Calcium	0,03%
Magnesium	0,014%
Sodio	2,12%
Potassium	1,60%

Amino acids

	Total (g/100g)		Total (g/100g)		Total (g/100g)
Alanin	4,05	Methionine	1,81	Arginine	3,76
Aspartic acid	8,83	Phenylalanine	3,34	Glycine	5,70
Cystine	0,43	Proline	8,21	Isoleucine	3,44
Glutamic acid	15,9	Serine	4,33	Leucine	5,99
Histidine	1,81	Tyrosine	1,42	Threonine	3,31
Lysine	5,50	valine	4,37	Tryptophan	0,80

Growth supporting properties

Descripción	Value
Peptone agar	Good/Bueno

Microbiological test

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

Storage

Temp. Min.:2 °C
Temp. Max.:25 °C