

Tryptone

Catalog : HB8270-4-500

Tryptone is a pancreatic digest of casein containing all the amino acids found in casein as well as larger peptide fractions .It is an excellent nutrient for use in culture media for producing antibiotics, toxins, enzymes and other biological products. The product is widely used in the pharmaceutical and veterinary industries and in diagnostic culture media.

Chemical Characteristics	Specifications	Typical Analysis
Amino Nitrogen (AN)	3-5%	3.14%
Total nitrogen (TN)	12-13%	12.88%
AN/TN Ratio	N/A	32%
Loss on drying	Maximum 6%	4.33%
Sulfated Ash	Maximum 15%	6.0%
Phosphorus	<0.2%	0.10%
pH(2% solution)	5.5-7.5	6.67

Elemental Profile

Calcium	0.019%
Magnesium	0.0079%
Potassium	1.3%
Sodium	2.1%

Amino acid	Total (g/100g)
Alanine	2.91
Arginine	3.30
Aspartic acid	6.99
Cystine	0.44
Glutamic acid	18.74
Glycine	1.86
Histidine	2.38
Isoleucine	4.45
Leucine	7.62
Lysine	6.60
Methionine	2.32
Phenylalanine	4.11
Proline	8.65
Serine	5.08
Threonine	3.91
Tryptophan	0.95
Tyrosine	1.86
Valine	5.51

Growth Supporting Properties

Peptone agar	Satisfactory
--------------	--------------

Microbiological Analysis

Standard Plate Count	Less than 5000 CFU/g
Yeasts and molds	Less than 100 CFU/g
Coliforms	Negative
Salmonella	Negative
Staphylococcus aureus	Negative

Storage conditions and Shelf life:

Tryptone must be stored tightly capped in the original container at 5-30°C. The dehydrated medium has a shelf life of 3 years from date of manufacturing.