

TRYPTONE (CASEIN PEPTONE TYPE I)

Cat# P004-1001



Casein Peptone Type I 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. This product is widely used in the pharmaceutical and veterinary industries and in diagnostic culture media.

Chemical characteristics	Specifications	Typical analysis
Amino Nitrogen (AN)	Minimum 3.9 %	4.2 %
Total Nitrogen (TN)	Minimum 10%	13.13 %
AN/TN Ratio	N/A	32.0 %
Loss on drying	Maximum 6%	3.3 %
Ash	Maximum 15%	6.0 %
pH (2% solution)	6.5 – 7.5	6.8
Elemental profile		
Calcium		0.019 %
Magnesium		0.0079 %
Potassium		1.3 %
Sodium		2.1 %
Amino acids		
		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 col/g	
Yeasts and molds	Less than 100 col/g	
Coliforms	Negative	
Salmonella	Negative	