



PRODUCT SPECIFICATION SHEET

CASEIN PEPTONE TYPE I (TRYPTONE)

Description

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