## **Casein Peptone (Enzymic Digest of Casein)**

#### **Intended Use**

Casein Peptone is used in the preparation of variety of culture media such as sterility testing media, diagnostic media and media for biochemical characterization.

## **Summary and Principle**

Casein Peptone is enzymic digest of casein manufactured under controlled conditions. It is a rich source of amino nitrogen. It also contains peptides, amino acids which acts as nitrogen source for microorganisms when used in culture media.

## Storage and Stability

Store dehydrated medium below 30°C in tightly closed container. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Note: TSE/BSE certificate is available on request.

### **Directions**

Refer to the final concentration in the formula of the medium being prepared.

# **Quality Control**

Staphylococcus aureus

Quality Control	
Test	Specification
Appearance	Brownish yellow / cream coloured powder.
Solubility	Completely soluble in water.
Colour and Clarity of 1% w/v	Light yellow coloured, clear solution.
aqueous solution after autoclaving	
at 15 psi / 15 min	
pH after autoclaving	$6.5 \pm 1.5$
Ash Content	Not More Than 25%
Loss on Drying (Moisture Content)	Not More Than 6%
α-amino Nitrogen Content	Not Less Than 2.5%
Total Nitrogen Content	Not Less Than 7%
Total microbial count	Less than 5000 cfu/g
E. coli	Absent
Salmonella	Absent
Pseudomonas aeruginosa	Absent

Absent

**Cultural Response**: Cultural characteristics observed after an incubation of 18-24 hours at 30°C-35°C for bacteria and 2-5 days for fungi at 20°C-25°C

Organism (ATCC)	Growth
Staphylococcus aureus (6538)	Good
Escherichia coli (8739)	Good
Pseudomonas aeruginosa (9027)	Good
Streptococcus pyogenes (19615)	Good
Candida albicans (10231)	Good
Aspergillus brasiliensis (16404)	Good

**Note:** Growth for *Aspergillus brasiliensis* was observed after 72 hours at 20°C-25°C for quantitative test and the same is carried out for qualitative test and confirmed characteristic growth (White mycelial growth with black spores) after 4-5 days.

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NaCl (%)	0.0	Isoleucine (% Free)	1.1
Calcium (µg/g)	111	Isoleucine (% Total)	5.9
Magnesium (µg/g)	213	Leucine (% Free)	4.7
Potassium (µg/g)	3480	Leucine (% Total)	7.9
Sodium (µg/g)	34090	Lysine (% Free)	4.5
Chloride (%)	0.10	Lysine (% Total)	5.9
Sulfate (%)	0.40	Methionine (% Free)	1.1
Phosphate (%)	2.48	Methionine (% Total)	2.2
Alanine (% Free)	0.9	Phenylalanine (% Free)	2.7
Alanine (% Total)	3.4	Phenylalanine (% Total)	5.5
Arginine (% Free)	2.6	Proline (% Free)	0.3
Arginine (% Total)	2.8	Proline (% Total)	7.1
Asparagine (% Free)	0.5	Serine (% Free)	8.0
Aspartic acid (% Free)	0.2	Serine (% Total)	2.1
Aspartic acid (% Total)	5.5	Threonine (% Free)	0.5
Cystine (% Free)	*	Threonine (% Total)	1.9
Glutamic Acid (% Free)	0.9	Tryptophan (% Free)	8.0
Glutamic Acid (% Total)	16.0	Tyrosine (% Free)	0.5
Glutamine (% Free)	*	Tyrosine (% Total)	1.6
Glycine (% Free)	0.2	Valine (% Free)	1.3
Glycine (% Total)	1.7	Valine (% Total)	6.3
Histidine (% Free)	0.4		
Histidine (% Total)	1.9		
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<sup>\*</sup> Below level of detection

## Reference

- 1. United States Pharmacopeial Convention, Inc. 2008. The United States pharmacopeia 31/The national formulary 26, Supp. 1, 8-1-08, online. United States Pharmacopeial Convention, Inc., Rockville, Md.
- 2. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

## **Product Presentation:**

Cat No.	Product description	Pack Size
202030250500	Casein Peptone (Enzymic Digest of Casein)	500 g
202030252500	Casein Peptone (Enzymic Digest of Casein)	2.5 k
202030259925	Casein Peptone (Enzymic Digest of Casein)	25 k (Bag)
202030259825	Casein Peptone (Enzymic Digest of Casein)	25 k (Drum)

#### Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.