



Casein Peptone

RDM-P-04

Principle: Casein peptone is enzymatic digest of casein (milk protein) manufactured by enzymatic hydrolysis of the solubilized material, which typically consists of 87% to 90% protein. The casein is digested with pepsin, a fairly non-specific protease. Casein being a rich source of all the essential amino acids, it also contains peptides, amino acids etc. which acts as nitrogen source for microorganisms.

Use: Recommended to use as culture media ingredient in variety of media preparations used for production of enzymes, steroids, vaccines and other pharmaceutical, agricultural economical products.

Quality Control

Appearance	Off white colored homogeneous free flowing, powder
Solubility (2%)	Soluble in distilled water
Clarity	Pale yellow colored clear solution without haziness at 2 % concentration
pH	6.00 – 7.50 at 25°C
Loss on drying	NMT 7.00% as estimated by AOAC method

Chemical analysis

Total Nitrogen	NLT 10.00%
Amino Nitrogen	NLT 3.00%
Residue on ignition	NMT 20%

Bacteriological testing: Bacteriological tests are carried out as per USP 32, NF26 where respective medium is prepared by using Bi-peptone under test.

Test for pathogens:

Total Plate Count	NMT 10000 cfu per gram.
Yeast & Molds	Absent per 10 grams
<i>Escherichia coli</i>	Absent per 10 grams
<i>Salmonella</i>	Absent per 10 grams
<i>Staphylococcus aureus</i>	Absent per 10 grams

Culture response: Cultural response observed after incubation at 35-37°C for 24 hours by using 2% Casein peptone, 0.5% sodium chloride and 1.5% agar, vitamin mixture 0.001% in water, pH 7.2-7.4.

<i>Escherichia coli</i> (ATCC 25922)	Luxurious growth
<i>Salmonella typhimurium</i> (ATCC 14028)	Luxurious growth
<i>Pseudomonas aeruginosa</i> (ATCC 10145)	Luxurious growth

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.

Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes used, unusable or modified preparation of this product must be disposed after autoclaving or incineration after completion

of task.

Disclaimer

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