



### 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

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

#### Chemical analysis

<b>Total Nitrogen</b>	NLT 10.00%
<b>Amino Nitrogen</b>	NLT 4.00%
<b>Residue on ignition</b>	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

Store below 30°C in tightly sealed jar or container. Use before expiry date on the label.

Expected performance when stored at optimum conditions and within expiry date.

**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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