



## Meat Peptone

**RDM-P-07**

### Principle

Meat peptones are proteins from animal sources that have been hydrolyzed or broken down into amino acids and peptides by enzymatic process. It is a highly nutritious enzymatic digest of meat is used as an ingredient in culture media. It can be incorporated into a variety of liquid and solid culture media formulations for the cultivation of fastidious and non-fastidious microorganisms.

**Use:** Recommended to use as culture media ingredient in variety of media and in fermentation.

### Quality Control

#### Physical parameters

<b>Appearance</b>	Light Beige colored homogeneous free flowing, hygroscopic powder
<b>Solubility (2%)</b>	Soluble in distilled water
<b>Clarity</b>	Light amber color clear solution without haziness at 2 % concentration
<b>pH</b>	5.00 – 7.00
<b>Loss on drying</b>	NMT 6.00%

#### Chemical analysis

<b>Total Nitrogen</b>	NLT 12.00 %
<b>Amino Nitrogen</b>	NLT 3.00%
<b>Residue on ignition</b>	NMT 12.00%

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

#### Test for pathogens:

Total Plate Count	NMT 10000 cfu per grams
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% meat peptone, 0.5% sodium chloride and 1.5% agar in water, pH 7.2-7.4.

<i>Escherichia coli</i> (ATCC 8739)	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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