



Enzymatic Peptone

RDM-P-30

Principle

Bacteriological grade Peptone is prepared by enzymatic digestion of selected fresh meat. Due to highly nutritious it supports good growth of wide diversity of microorganisms and can be used for identification of bacteria by performing various biochemical tests. As peptones deliberate nutritional benefit, especially at low dilution rates, recently it has been used as additives in recombinant cell lines for the production of a recombinant therapeutic protein.

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

Quality Control: Physical parameters and chemical analysis

Appearance	Light beige colored homogeneous free flowing powder
Solubility	Soluble in distilled water and insoluble in alcohol
Clarity	Pale yellow color clear solution (2% solution)
pH	6.50 – 7.50
Loss on drying	NMT 7.00%
Total Nitrogen	NLT 12.00%
Amino Nitrogen	NLT 3.00%
Residue on ignition	NMT 12.0%

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 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.

Microbial count: As per method specified in USP 32, NF26 $\leq$ Total of 50 microorganisms or clumps in 10 consecutive fields.

Culture response: Cultural response observed after incubation at 35-37°C for 24 hours by using 2% peptone, 0.5% sodium chloride and 1.5% agar in water, pH 7.2-7.4. Inoculate (Inoculum 50-100 CFU) and incubate at 35 $\pm$ 2°C for 18-24 hours.

<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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