



HM Peptone

RM635

Principle And Interpretation

HM Peptone is used for routine and mass scale cultivation of organisms for production of antibiotics, enzymes, and vitamin production. It is also used for general purpose culture media for routine cultivation of a variety of microorganisms. It is equivalent to Meat Peptone.

Quality Control

Appearance

Light yellow to brownish yellow homogenous free flowing powder, having characteristic odour but not putrescent.

Solubility

Freely soluble in distilled/purified water, insoluble in alcohol.

Clarity

1% w/v aqueous solution remains clear without haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Reaction

Reaction of 2% w/v aqueous solution at 25°C.

pH

6.00- 7.00

Microbial Load:

Total aerobic microbial count (cfu/gm)

By plate method when incubated at 30-35°C for not less than 3 days.

Bacterial Count : <= 2000 CFU/gram

Total Yeast and mould count (cfu/gm)

By plate method when incubated at 20-25°C for not less than 5 days.

Yeast & mould Count : <= 100 CFU/gram

Test for Pathogens

1. *Escherichia coli*-Negative in 10 gms of sample 2. *Salmonella* species-Negative in 10 gms of sample 3. *Pseudomonas aeruginosa*-Negative in 10 gms of sample 4. *Staphylococcus aureus*- Negative in 10 gms of sample 5. *Candida albicans*- Negative in 10 gms of sample 6. *Clostridia*- Negative in 10 gms of sample

Indole Test

Tryptophan content: Passes

Cultural response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing BPL Agar (M1020) using HM Peptone as an ingredient.

Cultural Response

Organism	Growth	Colour of colony
Cultural response		
<i>Escherichia coli</i> ATCC 25922	Poor-good	Yellow
<i>Salmonella Choleraesuis</i> ATCC 12011	Good-luxuriant	Pink-red
<i>Salmonella Enteritidis</i> ATCC 13076	Good-luxuriant	Pink-red
<i>Salmonella Typhimurium</i> ATCC 14028	Good-luxuriant	Pink to red

Chemical Analysis

Total Nitrogen	$\geq 13.50\%$
Amino Nitrogen	$\geq 3.5\%$
Sodium chloride	$\leq 6.0\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 12.0\%$

Storage and Shelf Life

Store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

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