



## HM Peptone B Powder

RM002

### Principle And Interpretation

HM Peptone B Powder is not exposed to harsh treatment of protein hydrolysis, as used for preparation of peptone. Hence it supplies phosphates, minerals, energy sources and other essential nutrients missing from peptone. It has wide application in general purpose, diagnostic media employed for bulk production of antibiotics, enzymes etc. It is rich in nutritional supplement. It is equivalent to Meat Extract B Powder.

### 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

6.10 - 7.10

#### 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 :  $\leq 2000$  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 :  $\leq 100$  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 Nutrient Agar (M001) using HM Peptone B as an ingredient.

#### Cultural response

##### Organisms

*Escherichia coli* ATCC 25922

*Pseudomonas aeruginosa* ATCC 27853

*Staphylococcus aureus* ATCC 25923

*Salmonella* Typhi ATCC 6539

*Streptococcus pyogenes* ATCC 19615

##### Growth

Luxuriant

Luxuriant

Luxuriant

Luxuriant

Luxuriant

**Chemical Analysis**

Total Nitrogen	$\geq 12.50\%$
Amino Nitrogen	$\geq 3.50\%$
Sodium chloride	$\leq 5.50\%$
Loss on drying	$\leq 6.0\%$
Residue on ignition	$\leq 12\%$

**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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