



## HM Peptone B Paste

RM274

### Principle And Interpretation

HM Peptone B Paste is rich source of nutrients and supports good growth of a wide variety of fastidious microorganisms. It serves as a crude source of carbon and nitrogen, therefore recommended for use in bacteriological media. It can be used for a number of general purpose media and diagnostic media. It can also be used for bulk production of antibiotics, enzymes and other products. It is equivalent to Meat Extract B Paste.

### Quality Control

#### Appearance

Brownish yellow to brown homogenous highly viscous paste, 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

5.00- 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 :  $\leq$  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 18-48 hours by preparing Blood Agar Base (M073) using HM Peptone B Paste as an ingredient.

#### Cultural Response

Organism	Growth w/o blood	Growth with blood	Haemolysis
<i>Neisseria meningitidis</i> ATCC 13090	Fair	Luxuriant	None
<i>Staphylococcus aureus</i> ATCC 25923	Good	Luxuriant	Beta
<i>Staphylococcus epidermidis</i> ATCC 12228	Good	Luxuriant	None
<i>Streptococcus pneumoniae</i> ATCC 6303	Fair-good	Luxuriant	Alpha
<i>Streptococcus pyogenes</i> ATCC 19615	Fair-good	Luxuriant	beta

**Chemical Analysis (As such Basis)**

TotalNitrogen	>= 8.0%
Amino Nitrogen	>= 2.0%
Total Solid	>= 65.0%
Residue on ignition	<= 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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