



## HM Infusion Powder

RM192

### Principle And Interpretation

HM Infusion Powder is specially designed to maximize the growth of highly fastidious microorganisms. It is employed in laboratory media formulations for mass cultivation of microorganisms for various purposes. It is also recommended as an additive in vaccine preparations. When dissolved in water it produces amber coloured solution, which remains clear even after autoclaving. It is equivalent to Meat Infusion 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 is clear without any haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.

#### Reaction

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

#### pH

6.20- 7.20

#### 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 incubation at 35 - 37°C for 18-48 hours by preparing Nutrient Agar (M001), using HM Infusion Powder as an ingredient.

#### Cultural Response

Organism	Growth
<b>Cultural response</b> <i>Escherichia coli</i> ATCC 25922	Good-luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	Good-luxuriant
<i>Salmonella</i> Typhi ATCC 6539	Good-luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	Good-luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	Good-luxuriant

**Chemical Analysis**

Total Nitrogen	$\geq 12.0\%$
Amino Nitrogen	$\geq 3.0\%$
Sodium chloride	$\leq 6.0\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 20.0\%$

**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.

**Disclaimer :**

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