

Technical Data

HI Powder RM191

Principle And Interpretation

HI Powder is manufactured under controlled conditions to meet the nutritional demands of highly fastidious microorganisms. It is rich in amino acids, peptides and other nutrients. Used in media employed for cultivation of fastidious organisms, like Brucella species, Mycoplasma, Pneumococci, Gonococci, Meningococci, Actinomycetes, fungi, etc. and mass cultivation of microorganisms for the preparations of vaccines and antibiotic sensitivity test. It is equivalent to Heart 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 and ether.

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.

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6.70-7.10

Microbial Load:

Total aerobic microbial count (cfu/gm)

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

 $Bacterial\ Count \ : <= 2000\ CFU/gram$

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 incubation at 35 - 37°C for 18-48 hours by preparing Mueller Hinton Agar (M173), using HI Powder as an ingredient.

Cultural Response

Organism	Growth
Cultural response	
Escherichia coli ATCC 25922	Luxuriant
Haemophilus influenzae ATCC 49247	Good - luxuriant (on Mueller Hinton Chocolate Agar)
Neisseria gonorrhoeae ATCC 49226	Luxuriant
Pseudomonas aeruginosa ATCC 27853	Luxuriant
Staphylococcus aureus ATCC 25923	Luxuriant
Enterococcus faecalis ATCC 29212	Luxuriant

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Streptococcus pneumoniae luxuriant (on Mueller Hinton Blood Agar) ATCC 6305

Chemical Analysis

Total Nitrogen	>= 12.0%
AminoNitrogen	>= 3.50%
Sodium chloride	<= 5.50%
Loss on drying	<= 5.0%
Residue on ignition	<= 12.0%
Calcium(Ca)	<= 0.02%
Magnesium(Mg)	<= 0.11%

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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Disclaimer:

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