Technical Information

Heart Infusion Powder

Product Code: BA 2191

Principle & Interpretation

Heart Infusion 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. It is 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 HI Powder.

Quality Control

Appearance

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

Solubility

Freely soluble in distilled water, insoluble in alcohol and ether.

Clarity

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

Reaction

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

pH Range

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

BA 2191: Cultural response observed after incubation at 35 - 37°C for 18-48 hours by preparing Mueller Hinton Agar (DM1173), using Heart Infusion 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
Streptococcus pneumoniae ATCC 6305	luxuriant (on Mueller Hinton Blood Agar)

Chemical Analysis

Total Nitrogen	>= 12.0%
Amino Nitrogen	>= 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

Dried Media: 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.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at CDH is true and accurate
- Central Drug House Pvt. Ltd. reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents. Do not use the products if it fails to meet specificatons for identity and performens parameters.