

1251 - HEART INFUSION POWDER (A Media Base For Cultivation Of Fastidious Microorganisms)

INTENDED USE

Used in as a media base for cultivation of fastidious organisms and antibiotic sensitivity test.

PRODUCT SUMMARY AND EXPLANATION

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. It is equivalent to Heart Infusion Powder. It is Light yellow to brownish yellow colour free flowing powder having characteristic odour but not pungent smell. It is soluble in distilled water & clear solution.

PRINCIPLE

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. 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.

INSTRUCTION FOR USE

Heart Infusion powder is a general-purpose liquid medium used in the cultivation of fastidious and nonfastidious microorganisms, including aerobic and anaerobic bacteria, from a variety of clinical and nonclinical materials.

QUALITY CONTROL SPECIFICATIONS

| | | |
|--|---|---|
| Appearance | : | Light yellow to brownish yellow colour free flowing powder having characteristic odour but not pungent smell. |
| Solubility (2% soln. at 25°C) | : | Soluble in distilled water, clear. |
| Clarity (2% Soln. at 121°C) After Autoclave | : | Clear solution. No ppt. |
| pH (2% soln. at 25 °C) | : | 6.5 – 7.5 |
| Loss on drying (at 105 °C) | : | NMT – 5.0% |
| Total Nitrogen Content | : | NLT – 12.0% |
| α-Amino Nitrogen | : | NLT – 3.5% |
| Total Ash | : | NMT – 10.0% |
| Chloride (as NaCl) | : | NMT – 6.0% |
| Indole Test | : | Positive |
| Microbial Parameter | : | Passes Test |
| Growth Promotion Test | : | Passes Test |

INTERPRETATION

Cultural Characteristic observed in 2% Veg. Heart Infusion Powder and 1.5% agar after incubation at 35-37°C for 18-48 hours.

| Microorganism | ATCC | Growth w/o blood | Growth |
|-------------------------------|-------|------------------|------------------|
| <i>Staphylococcus aureus</i> | 25923 | 50-100 | Good - Luxuriant |
| <i>Escherichia coli</i> | 25922 | 50-100 | Good - Luxuriant |
| <i>Enterococcus faecalis</i> | 29212 | 50-100 | Good - Luxuriant |
| <i>Salmonella Typhimurium</i> | 14028 | 50-100 | Good - Luxuriant |



PACKAGING:

Standard packing is 500gm in plastic bottle. After packing tightly closed in a dry and well-ventilated place.

STORAGE

Keep plastic bottle tightly closed in a dry and well-ventilated place, Store in cool place. 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 plastic bottle after use.

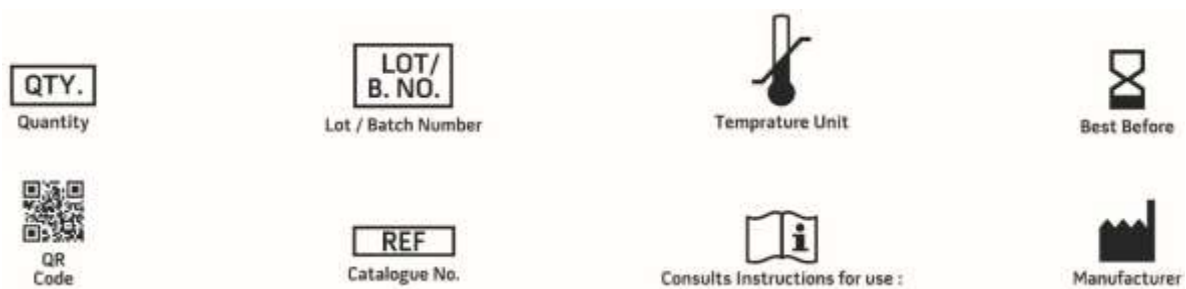
Product Deterioration: Do not use product if any contamination, discoloration or other sign of deterioration is found.

DISPOSAL

After use, contact a licenced professional waste disposal service to dispose off this material. Dispose of as unused product.

REFERENCES

1. American Pharmaceutical Association. 1950. The national formulary, 9th ed., APA, Washington, D.C. ISO 6888-1:1999/Amd 1:2003. Inclusion of precision data.
2. Pratt-Rippin and Pezzlo. 1992. In Isenberg (ed.), Clinical microbiology procedures handbook, vol. 1. American Society for Microbiology, Washington, D.C.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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