

1240 - BRAIN HEART INFUSION POWDER (Culture Media Ingredient Used For Cultivation Of Fastidious Microorganisms)

INTENDED USE

Used for Culture Media Ingredient used for Cultivation of Fastidious Microorganisms like Streptococci, Pneumococci, Meningococci, Haemophilus, Neisseria sp. and pathogenic fungi.

PRODUCT SUMMARY AND EXPLANATION

Brain heart infusion powder prepared by adding pieces of brain tissue to meat infusion. It 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. It serves as a base for supplemented media containing 0.1% agar, Fildes enrichment or 6.5% sodium chloride. A supplemented pre-reduced formulation in tubes is especially recommended for the cultivation of anaerobes.

PRINCIPLE

Brain Heart Infusion Powder is prepared from meat infusion. It is yellowish to bright brown color, free flowing powder having characteristic odour but not pungent smell and Soluble in distilled Water, Clear. Insoluble in alcohol. It readily dissolves in distilled water forming beige colored, crystal clear solution which does not develop haziness after autoclaving. It is equivalent to Brain Heart Infusion powder.

INSTRUCTION FOR USE

Brain 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	:	Yellowish to bright brown color, free flowing powder having characteristic odour but not pungent smell.
Solubility (2% soln. at 25°C)	:	Soluble in distilled Water, Clear. Insoluble in alcohol.
Clarity (2% Soln. at 121 °C.) After Autoclave	:	Clear solution. No ppt.
pH (2% Soln. at 25 °C)	:	5.5 – 6.5
Loss on drying (at 105 °C)	:	NMT – 6.0%
Total Nitrogen (DWB)	:	NLT – 12.0%
α-Amino Nitrogen	:	NLT – 3.5%
Total Ash	:	NMT – 12.0%
Chloride (as NaCl)	:	NMT – 5.0%
Microbial Parameter	:	Passes Test
Growth Promotion Test	:	Passes Test
Indole Test	:	Positive

TEST	SOLUTION	ORGANISM	ATCC	RESULT
Hydrogen Sulfide Production	1%	Salmonella Typhimurium	14028	Positive
Indole Production	1%	Escherichia coli	29552	Positive



INTERPRETATION

Culture Characteristics observed after inoculating 50-100 CFU, for incubation period of 24-72 hours at 35± 2°C, under 5-10% CO₂ (for anaerobes only), with added 5% of sterile defibrinated blood.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth
<i>Staphylococcus aureus</i>	25923	50-100	Good - Luxuriant
<i>Streptococcus pneumoniae</i>	6303	50-100	Good - Luxuriant
<i>Streptococcus pyogenes</i>	19615	50-100	Good - Luxuriant
<i>Clostridium perfringens</i>	12924	50-100	Good - Luxuriant

PACKAGING:

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

STORAGE

Keep HDPE 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 HDPE bottle after use.

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

DISPOSAL

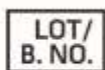
After use, contact a licenced professional waste disposal service to dispose of this material. Dispose of as unused product.

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.



Quantity



Lot / Batch Number



Temperature Unit



Best Before



QR Code



Catalogue No.



Consults Instructions for use :



Manufacturer

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

***For Lab Use Only**
Revision: 05th Oct. 2019