

## CM 20288 – BRAIN HEART INFUSION BROTH (ISO 6880-1983)

### INTENDED USE

For propagation of pathogenic cocci and other fastidious organisms associated with blood culture work and allied pathological investigations and for enrichment of *Staphylococcus aureus*.

### PRODUCT SUMMARY AND EXPLANATION

Rosenow devised the original Brain Heart Infusion Broth by adding brain tissue to dextrose broth. Brain Heart Infusion Broth is a highly nutritious medium and is also well buffered to support the growth of wide variety of microorganisms. Recently this medium has been recommended by ISO committee for the detection of *Staphylococcus aureus*. With the additions of desired additives this medium can be specifically adopted for cultivation of various bacteria. Addition of 6.5% sodium chloride makes it selective for isolation of various salt tolerant bacteria like Enterococci. Brain Heart Infusion Broth is also used for the preparation of inocula for use in antimicrobial susceptibility tests.

### COMPOSITION

Ingredients	Gms / Ltr
Peptic digest of animal tissue	10.000
Calf brain, infusion (solids)	12.500
Beef heart, infusion (solids)	5.000
Dextrose	2.000
Sodium chloride	5.000
Disodium phosphate	2.500

### PRINCIPLE

The medium contains dextrose which acts as a source of energy. Phosphate ion buffers the medium. Sodium chloride helps in maintaining osmotic balance.

### INSTRUCTION FOR USE

Dissolve 37 grams in 1000 ml distilled water.

Dispense into bottles or tubes and sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

For best results, the medium should be used on the day it is prepared, otherwise, it should be boiled or steamed for a few minutes and then cooled before use.

### QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Light amber coloured, clear to slightly opalescent solution.
pH (at 25°C)	: 7.4±0.2

### INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period



Neisseria meningitidis	13090	50-100	Luxuriant	35-37°C	18-24 Hours
Staphylococcus aureus	25923	50-100	Luxuriant	35-37°C	18-24 Hours
Streptococcus pneumoniae	6303	50-100	Luxuriant	35-37°C	18-24 Hours
Streptococcus pyogenes	19615	50-100	Luxuriant	35-37°C	18-24 Hours

**PACKAGING:**

Inpacksizeof500 gm bottles.

**STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.




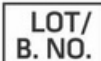








Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

**DISPOSAL**

Afteruse,prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**REFERENCES**

1. Rosenow, 1919, J. Dental Res., 1:205.
2. Roseburg T. et al, 1944, J. Inf. Dis., 74:131.
3. Conant N.F., 1950, Diagnostic Procedures and Reagents, 3rd Ed., APHA, Inc., New York, p. 452.
4. MacFaddin J.F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.
5. International Organization for Standardization (ISO), 1983, Enumeration of Staphylococcus aureus, Draft ISO/DIS 6880.

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Cataloge Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedNet GmbH Birkstrasse 10, 48153 Münster, Germany</small>	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

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

\*For LabUse Only

