
BRAIN HEART INFUSION BROTH

INTENDED USE

Remel Brain Heart Infusion Broth is a liquid medium recommended for use in qualitative procedures as a general purpose medium for the cultivation of various fastidious and nonfastidious microorganisms. It is also used for the preparation of inocula for use in antimicrobial susceptibility tests and broth microdilution for minimum inhibitory concentration (MIC) testing.

SUMMARY AND EXPLANATION

Rosenow developed a medium for culturing streptococci by adding pieces of brain tissue to dextrose broth.¹ BHI Broth is used for the cultivation of a wide variety of microorganisms, including bacteria, yeasts, and molds. This medium is recommended by the Food and Drug Administration.²

PRINCIPLE

This medium contains peptones and infusions of brain and heart tissue which supply protein and other nutrients necessary for the growth of bacteria. Sodium chloride provides essential electrolytes and maintains osmotic equilibrium. Disodium phosphate acts as a buffer and dextrose is an energy source.

REAGENTS (CLASSICAL FORMULA)*

Casein Peptone.....	14.5 g	Sodium Chloride.....	5.0 g
Meat Peptone.....	7.0 g	Disodium Phosphate	2.5 g
Brain Heart Infusion Solids.....	6.0 g	Dextrose	2.0 g
		Demineralized Water.....	1000.0 ml

pH 7.4 ± 0.2 @ 25°C

*Adjusted as required to meet performance standards.

PRECAUTIONS

This product is For Laboratory Use only. It is not intended for use in the diagnosis of disease or other conditions.

PREPARATION OF DEHYDRATED CULTURE MEDIUM

1. Suspend 37 g of medium in 1000 ml demineralized water.
2. Mix thoroughly and warm to completely dissolve.
3. Dispense into appropriate containers and sterilize at 121°C for 15 minutes.

PROCEDURE

1. Consult current editions of appropriate references for the recommended procedure for sample preparation, inoculation, testing, and interpretation.

QUALITY CONTROL

Each lot number of Brain Heart Infusion Broth has been manufactured, packaged, and processed in accordance with current Good Manufacturing Practice regulations. All lot numbers have been tested using the following quality control organisms and have been found to be acceptable. Testing of control organisms should be performed in accordance with established laboratory quality control procedures. If aberrant quality control results are noted, sample results should not be reported.

CONTROL

Candida albicans ATCC® 10231
Escherichia coli ATCC® 25922
Staphylococcus aureus ATCC® 25923

INCUBATION

Ambient, 18-24 h @ 33-37°C
Ambient, 18-24 h @ 33-37°C
Ambient, 18-24 h @ 33-37°C

RESULTS

Growth
Growth
Growth

BIBLIOGRAPHY

1. Rosenow, E.C. 1919. J. Dent. Res. 1:205-215.
2. Food and Drug Administration. 2002. Bacteriological Analytical Manual Online. Chapter 4, Revised January 2003. Authors: P. Feng and S.D. Weagant. AOAC International, Gaithersburg, MD.

Refer to the front of Remel *Technical Manual of Microbiological Media* for **General Information** regarding precautions, product storage and deterioration, sample collection, storage and transportation, materials required, quality control, and limitations.

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