



Brain Heart Infusion Broth

LAB 49

Description

Rich isotonic infusion medium with tryptose (a mixture of meat and milk peptones) providing a wide range of substrates. A low concentration of glucose is used to stimulate early growth. The

medium is lightly buffered to prevent the early death of some species due to acid production. Organisms which produce significant amounts of acid may well overwhelm the buffering system and autosterilise. The medium is suitable for use as a blood culture medium or as an enrichment broth for fastidious organisms.

The use of porcine material in this product ensures there are no Specified Risk Materials (SRM'S) with respect to Transmissible Spongiform Encephalopathies (TSE'S).

Formula	g/litre
Brain-Heart Infusion solids (porcine)	17.5
Tryptose	10.0
Glucose	2.0
Sodium chloride	5.0
Disodium hydrogen phosphate	2.5

Method for reconstitution

Weigh 37 grams of powder then disperse in 1 litre of deionised water. Allow to stand for 10 minutes then dissolve with gentle heat before dispensing into tubes or bottles. Sterilise at 121°C for 15 minutes. Overheating will cause caramelisation and darkening of the medium.

Appearance: Straw colour, clear liquid.

pH: 7.4 ± 0.2

Minimum O.C. organisms: *S. aureus* NCIMB 50080
E. coli NCIMB 50034

Storage of Prepared Medium: Capped container – up to 3 months at 15-20°C in the dark.

Inoculation: (as a blood culture medium). Using a minimum volume of 50ml of medium add the blood to a dilution of from 1:10 to 1:20. Use in conjunction with an anaerobic culture medium e.g. Fastidious Anaerobe Broth LAB 71.

Incubation: 37°C aerobically for 7 to 15 days.

Interpretation: Observe daily, subculture after 1, 2, 3, 7 and 15 days or immediately on showing signs of growth.

References

Rosenow. E.C. (1919). Studies on selective localisation; focal infection with special reference to oral sepsis. J. Dent. Res. 1:205-267.