

Bases / Media Supplements

Technical Information

Brain Heart Infusion with PABA

Product Code: DM 1212

Application: Brain Heart Infusion with PABA is used for culturing blood from patients under Sulphonamide therapy.

Composition**		
Ingredients	Gms / Litre	
Calf brain, infusion from	200.000	
Beef heart, infusion from	250.000	
Peptic digest of animal tissue	10.000	
Sodium chloride	5.000	
Dextrose	2.000	
Disodium phosphate	2.500	
o-Amino benzoic acid (PABA) Final pH (at 25°C)	0.050 7.4±0.2	
**Formula adjusted, standardized to suit performance	parameters	

Principle & Interpretation

Brain Heart Infusion w/ PABA is a highly nutritious medium which can support luxuriant growth of wide variety of microorganisms including bacteria, yeasts and moulds ⁽¹⁾ It is often used for isolation of pathogens from clinical specimens especially blood ⁽²⁾. Para amino benzoic acid is an active inhibitor of the bacteriostasis produced by the sulfonamide drugs; also it serves as an accessory growth factor for several species of bacteria ⁽³⁾. Therefore para amino benzoic acid incorporated in the medium helps to neutralize the effect of antimicrobials present in the blood of patients under sulphonamide therapy making isolation of organisms from blood easier. Peptic digest of animal tissue and calf brain and beef heart infusion provides carbon, nitrogen, amino acids and vitamins. De xtrose

serves as a source of energy. Sodium chloride helps in maintaining the osmotic equilibrium.

Methodology

Suspend 37.05 grams of powder media in 1000 ml distilled water. Shake well and heat to dissolve the medium completely. Dispense as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light amber coloured, clear to very slightly opalescent solution without any precipitate

Reaction Reaction of 3.7% w/v aqueous solution at 25°C. pH : 7.4±0.2

pH Range:- 7.20-7.60

Cultural Response/Characteristics

DM1212: Cultural characteristics observed with added 0.5 grams of sulphadiazine per litre after an incubation i) Bacteria at 35-37°C for 18-24 hours ii)Fungal at 25-30°C for 24-48 hours.





Dehydrated Culture Media Bases / Media Supplements

good-luxuriant
good-luxuriant
good-luxuriant
good-luxuriant
good-luxuriant

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label. Prepared Media: 2-8⁰ in sealable plastic bags for 2-5 days.

Further Reading

1. MacFaddin J. F., 1985, Media for the Isolation-Cultivation-Identification- Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore

2. Murray P. R., Baron E. J., Jorgensen J. H., Pfaller M. A., Yolken R. H., (Eds.), 8th (Eds.), 2003, Manual of Clinical Microbiology, ASM, Washington, D.C.

3. Mirick G. S., 1943, Exp. Med., 78:255

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- User must ensure suitability of the product(s) in their application prior to use.
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