

Technical Information

Bile Broth Base, MiVeg

Product Code : VM1071

Application:- Bile Broth Base, MiVeg is used to culture blood clots from patients with suspected enteric fever.

Composition

Ingredients	Gms / Litre
MiVeg	peptone
Synthetic detergent No. V	5.0
Sodium chloride	5.0
Final pH (at 25°C)	7.6±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Bile Broth Base, MiVeg is prepared by using Veg peptone in place of peptic digest of animal tissue which makes the medium free from BSE/TSE risks. When blood samples from a patient with suspected enteric fever is submitted for the widal test this medium like the conventional medium is useful as a routine to culture the clot after separation of serum (1). Majority of the gram- positive species are inhibited by synthetic detergent No. V . Sodium chloride maintains the isotonicity of the medium. MiVeg peptone supplies nitrogen in the medium whereas addition of streptokinase solution causes rapid clot lysis with release of bacteria trapped in the clot (2).

Methodology

Suspend 30 grams of powder media in 1000 ml purified/distilled water. Mix thoroughly. Heat if necessary to dissolve the medium completely. Dispense in tubes as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 40°C and add 1 ml of streptokinase solution (100000 units/ml). If desired carbohydrate of choice may be added before sterilization.

Quality Control

Physical Appearance

Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Colour and Clarity of prepared medium

Yellow coloured, clear liquid without any haziness.

Reaction

Reaction of 3.0 % w/v aqueous solution pH: 7.6±0.2 at 25°C

pH range

7.4-7.8

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 18-48hours

Organisms (ATCC)	Growth
<i>Enterobacter aerogenes</i> (13048)	luxuriant
<i>Escherichia coli</i> (25922)	luxuriant
<i>Salmonella</i> serotype Typhi (6539)	luxuriant
<i>Staphylococcus aureus</i> (25923)	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: 2-8° in sealable plastic bags for 2-5 days.



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1. Control
2. *Enterobacter aerogenes*
3. *Escherichia coli*
4. *Salmonella* serotype Typhi
5. *Staphylococcus aureus*

Further Reading

1. Colle, J.G., Duguid J.P., Fraser A.G. and Marmion, B.P. (eds.) 1989 Mackie and McCartney Practical Medical Microbiology, Vol. 2, p:134 Longman Group, UK.
2. Watson, K.C. 1955, Isolation of *Salmonella typhi* from the blood stream. J. of Lab and Clinical Medicine 46:128-134.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate
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