

Technical Information

Enriched Thioglycollate MiVeg Broth

Product Code : VM1738

Application:- Enriched Thioglycollate MiVeg Broth is recommended for isolation, cultivation and identification of a wide variety of obligate anaerobic bacteria

Composition**

Ingredients	Gms / Litre
MiVeg hydrolysate	17.0
Papaic digest of soyabean meal	3.0
Dextrose	6.0
Sodium chloride	2.5
Sodium thioglycollate	0.5
L-Cystine	0.25
Sodium sulphite	0.1
Ferric pyrophosphate	0.005
Vitamin K1	0.001
Agar	0.7
Final pH (at 25°C)	7.0 ± 0.2

** Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Enriched Thioglycollate MiVeg Broth is prepared by adding MiVeg hydrolysate which is free from BSE/TSE risks associated with animal based peptones. Enriched Thioglycollate MiVeg medium is the modification of Enriched Thioglycollate medium which is recommended for isolation and cultivation of fastidious and obligate anaerobic bacteria from the clinical materials (1).

MiVeg hydrolysate, Papaic digest of soyabean meal supports growth of wide variety of fastidious microorganisms. Sodium thioglycollate lowers the oxidation-reduction potential for anaerobic growth and also neutralizes the bacteriostatic effect of mercurial compounds. Most organisms show earlier and more vigorous growth in presence of dextrose, ferric pyrophosphate and vitamin K1.

Methodology

Suspend 30 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 12 - 15 lbs pressure (118 - 121°C) for 15 minutes. Cool and dry under 85% Nitrogen (N₂) + 10% Hydrogen (H₂) + 5% Carbon dioxide (CO₂) atmosphere.

Quality Control

Physical Appearance

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

Colour and Clarity of prepared medium

Light amber coloured clear to slightly opalescent solution forms in tubes.

Reaction

Reaction of 3.0% w/v aqueous solution is pH 7.0 ± 0.2 at 25°C

pH range

6.8-7.2

Cultural Response/Characteristics

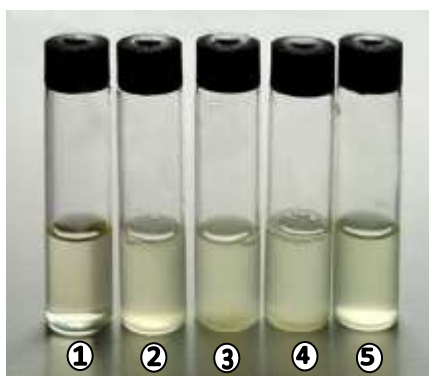
Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours under anaerobic condition.

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Bacteroides vulgatus</i> (8482)	10 ² -10 ³	luxuriant
<i>Clostridium perfringens</i> (12924)	10 ² -10 ³	luxuriant
<i>Clostridium sporogenes</i> (11437)	10 ² -10 ³	luxuriant
<i>Neisseria meningitidis</i> (13090)	10 ² -10 ³	luxuriant
<i>Streptococcus pyogenes</i> (19615)	10 ² -10 ³	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 | 4. <i>Bacteroides vulgatus</i> |
| 2. <i>Clostridium perfringens</i> | 5. <i>Streptococcus pyogenes</i> |
| 3. <i>Clostridium sporogenes</i> | |

Further Reading

- Murray PR, Baron, Pfaller and Tenenbaum (Eds.), 2003, In Manual of Clinical Microbiology, 8th ed., ASM, Washington, D.C.

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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