Technical Information

Tryptose Blood Agar Base, MiVeg

Product Code : VM1097

Application:- Tryptose Blood Agar Base, MiVeg is recommended for the excellent isolation and cultivation of fastidious organisms and for the determination of their hemolytic activity, with blood supplementation.

Composition**

Ingredients	Gms / Litre
MiVeg hydrolysate No. 1	10.0
MiVeg extract	3.0
Sodium chloride	5.0
Agar	15.0
Final pH (at 25°C)	7.2 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Tryptose Blood Agar Base, MiVeg is prepared by adding vegetable peptones in place of animal based peptones thus making the medium free from BSE/TSE risks. Tryptose Blood Agar Base MiVeg is the modification of Tryptose Blood Agar Base which is formulated as described by Casman (1, 2) and also recommended by APHA (3). It can be used as basal medium for preparing Blood Agar for cultivation of various fastidious organisms and for determining their haemolytic reactions.

MiVeg hydrolysate No.1 and MiVeg extract supply nitrogenous and carbonaceous compounds, sulphur, vitamin B complex and trace elements essential for the metabolic activities of the bacteria. This medium, not only keep the blood cells in a good state but also helps in formation of distinct haemolytic zones.

Methodology

Suspend 33 grams of powder media in 1000 ml distilled water. Mix thoroughly and heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45- 50°C and aseptically add 5% v/v sterile defibrinated blood. Mix thoroughly, avoiding air bubbles and pour into sterile petri plates.

Quality Control

Physical Appearance

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

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity of prepared medium

Basal medium yields yellow coloured slightly opalescent gel. With addition of 5-7% v/v defibrinated sterile blood cherry red coloured, opaque gel forms in petri plates.

Reaction

Reaction of 3.3% w/v aqueous solution is pH 7.2 ± 0.2 at 25°C.

pH Range

7.0-7.4

Cultural Response/Characteristics

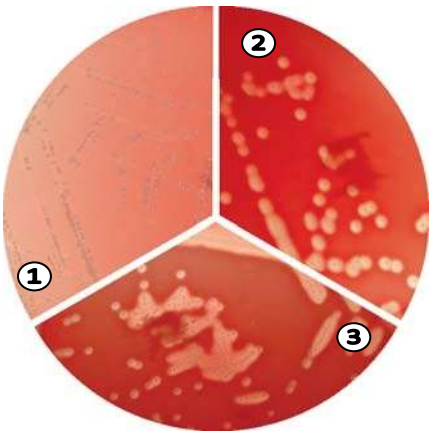
Cultural characteristics observed after an incubation at 35-37°C for 18 - 48 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth w/o blood	Recovery w/o blood	Growth w/ blood	Recovery w/ blood	Heamolysis
Neisseria meningitidis (13090)	10^2-10^3	Good-luxuriant	>70%	Luxuriant	>70%	None

Staphylococcus aureus (13090)	10^2-10^3	Good-luxuriant	>70%	Luxuriant	>70%	Beta
Staphylococcus epidermidis (12228)	10^2-10^3	Good-luxuriant	>70%	Luxuriant	>70%	Gamma
Streptococcus pneumonia (6303)	10^2-10^3	fair - good	>30%	Good	>50%	Alpha
Streptococcus pyogenes(19615)	10^2-10^3	fair - good	>30%	Good	>50%	Beta

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: 2-8^0 in sealable plastic bags for 2-5 day.



VM 1097 Tryptose Blood Agar Base, MiVeg

1. *Staphylococcus epidermidis*
2. *Streptococcus pyogenes*
3. *Staphylococcus aureus*

Further Reading

1. Casman E.P., 1942, J. Bacteriol., 43:33.
2. Casman E.P., 1947, Am. J. Clin. Path., 17 : 281.
3. American Public Health Association, 1970, Diagnostic Procedures and Reagents, 5th ed. APHA Inc., New York.

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.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for in fingement of any patents. Do not use the products if it fails to meet specificatons for identity and performens parameters.