Technical Information

Milk MiVeg Agar (Brown and Scott Modified) (Twin Pack)

Product Code : VM1782

Application:- Milk MiVeg Agar (Brown and Scott Modified) (Twin Pack) is used for the confirmation of *Pseudomonas aeruginosa* in swimming pool waters.

Composition**

Ingredients	Gms / Litre
Part A:	
Instant Non-Fat Milk	100.0
Part B:	
MiVeg peptone	5.0
Sodium chloride	5.0
MiVeg extract	1.5
Yeast extract	1.5
Agar	15.0
Final pH (at 25°C)	7.4±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Milk MiVeg Agar is prepared by using vegetable peptones instead of animal based peptone, thus the media becomes free from BSE/TSE risks. This medium is the modification of Milk Agar prepared by Brown and Scott (1) for the confirmation of *Pseudomonas aeruginosa* inswimming pool waters. Swimming pool water is generally chlorinated potable water but it can also be from thermal springs or salt water. Microorganisms of concern are typically those from the body of the bather's including the orifices. *Pseudomonas aeruginosa* is one of the major supporting indicator organisms in the swimming pool which is responsible for ear and eye infection. This organism is very likely get disseminated in the swimming pool water due to constant contact of ears and eyes with the water.

This media is composed of Milk, MiVeg peptone, yeast extract, MiVeg extract which supplies all the necessary nutrients mainly nitrogenous for the multiplication of *Pseudomonas aeruginosa.* Yellowish green coloured colonies are formed by *Pseudomonas aeruginosa* on this medium.

Methodology

Part A: Suspend 100 grams of Part A powder in 500 ml distilled water. Mix thoroughly. Sterilize by autoclaving at 15 lbs pressure (121°C) for 5 minutes. Cool to 55°C.
Part B: Suspend 28 grams of Part B powder in 500 ml distilled water. Mix thoroughly.Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool rapidly to 55°C. Mix Part A and Part B together and pour into sterile petri plates

Quality Control

Physical Appearance

Part A : Cream coloured, homogeneous, free flowing powder.
Part B : Light yellow to 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

Light yellow coloured, opalescent gel forms in petri plates.

Reaction

Reaction of 2.8% w/v aqueous solution of Part B ispH 7.4 ± 0.2 at 25°C

pH range

7.2-7.6

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery	Pigment production
Escherichia coli (25922)	10^2-10^3	luxuriant	>70%	-
Pseudomonas aeruginosa (27853)	10^2-10^3	luxuriant	>70%	Yellowish green

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 days.

Further Reading

1. Brown M.R.W. and Scott F. J.H., 1970, J. Clin. Pathol., 23:172.

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.