Technical Information

Candida MiVeg Medium

Product Code : VM1104

Application:- Candida MiVeg Medium is a selective media used for cultivation of *Candida* species.

Composition

Ingredients	Gms / Litre
MiVeg peptone No. 4	2.5
Dextrose	5.0
Dipotassium hydrogen phosphate	5.0
Sodium sulphite	5.0
Bismuth sulphite indicator	3.0
Agar	15.0
Final pH (at 25°C)	7.6±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Candida MiVeg Medium is prepared by using MiVeg peptone No.4 inplace of mycological peptone which makes it free from BSE/TSE risks. This Medium is used for the selective cultivation and differentiation of *Candida* species and is the modification of the medium developed by Nickerson (1). It is also used for processing and inoculation of specimens like tissues, skin scrappings, nails and hair (2, 3). Differentiation of *Candida* species is based on the growth patterns and pigmentation of isolated colonies.

It contains MiVeg peptone No.4 which serve as a nitrogen source while dextrose acts as carbon source and phosphate maintains buffering system in the medium. Sodium sulphite present in this medium is reduced by *Candida* species to form sulphide. Bismuth combines with the sulphide to produce brown to black pigmented colonies and zones of dark precipitate in the medium surrounding the colonies of some species. Bismuth sulphite also acts as an inhibitor of bacterial growth. Incorporation of penicillin & streptomycin increases selectivity of the medium which helps to suppress the growth of bacterial species.

Methodology

Suspend 35.5 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 50 - 52°C and aseptically add 0.3 unit of Penicillin and 25 µg Streptomycin per ml of sterile medium. Mix well and pour into petriplates.

Quality Control

Physical Appearance

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, clear to slightly opalescent gel forms in petri plates.

Reaction

Reaction of 3.55 % w/v aqueous solution pH: 7.6 ±0.2 at 25°C

pH range

7.4-7.8

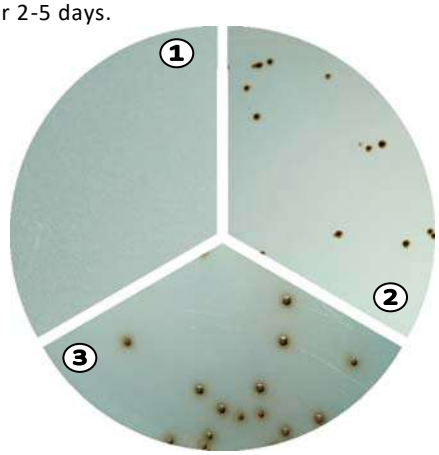
Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 25-30°C for 24-48 hours

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
Candida albicans (10231)	10^2-10^3	good-luxuriant	>50%
Candida tropicalis (1369)	10^2-10^3	good-luxuriant	>50%
Escherichia coli (25922)	10^2-10^3	inhibited	0%

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.



VM1104 Candida MiVeg Medium

1. Control
2. *Candida albicans*
3. *Candida tropicalis*

Further Reading

1. Nickerson, 1953, J. Infect. Dis., 93:43.
2. Haley, Trandel and Coyle, 1980, Cumitech 11, Practical Methods For Culture And Identification of Fungi In The Clinical Mycology Laboratory. Coord ed., Sherris, ASM, Washington, D.C.
3. Emmons, Binford, Utz and Kwon-Chung, 1977, Medical Mycology, 3rd ed., W.B. Saunders Co., Philadelphia.

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.