Technical Information

Brain Heart CC Agar, MiVeg

Product Code : VM1209

Application:- Brain Heart CC Agar, MiVeg is a selective media, used for isolation and cultivation of fastidious pathogenic fungi from specimens heavily contaminated with bacteria and saprophytic fungi.

Composition

Ingredients	Gms / Litre
MiVeg special infusion	7.5
MiVeg infusion	10.0
MiVeg peptone No. 3	10.0
Dextrose	2.0
Sodium chloride	5.0
Disodium phosphate	2.5
Chloramphenicol	0.05
Cycloheximide	0.5
Agar	15.0
Final pH (at 25°C)	7.4±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Brain Heart CC Agar, MiVeg is prepared by using vegetable peptones inplace of animal based peptones which makes it BSE/TSE risk free. Brain Heart CC MiVeg Agar is the modification of Brain Heart CC Agar formulated as per Ajello, et al (1, 3) and McDonough, et al (2). Chloramphenicol is a broad-spectrum antibiotic which inhibits wide range of gram positive and gram negative bacteria. Cycloheximide inhibits most saprophytic yeast and moulds. This medium can be enriched with 10% sheep blood to isolate systemic fungi that grow poorly on non enriched medium. The selectivity of this can be improved by the addition of 50 mcg Gentamicin per ml of medium. The antibiotics present in this medium may inhibit some fungi. *Histoplasma capsulatum* should be handled with extreme care should be taken to avoid dissemination of its infective spores. The culture should be examined in a closed filtered air cabinet.

Methodology

Suspend 52.5 grams of powder media in 1000 ml purified/distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Avoid excess heat as it may reduce the selectivity of the medium.

Warning: Cycloheximide is very toxic. Avoid skin contact or aerosol formation and inhalation.

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

Light amber coloured, clear to slightly opalescent gel forms in petri plates.

Reaction

Reaction of 5.25 % w/v aqueous solution pH: 7.4±0.2 at 25°C

pH range

7.2-7.6

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 25-35°C for 40-96 hours

Organisms (ATCC)	Growth
Aspergillus niger (16404)	inhibited
Blastomyces dermatidis	good
Candida albicans (10231)	fair-good
Candida tropicalis (1369)	inhibited
Escherichia coli (25922)	inhibited
Histoplasma capsulatum	good
Trichophyton megninii (12106)	good-luxuriant
Trichophyton mentagrophytes (9533)	good-luxuriant
Trichophyton tonsurans (10220)	good-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: 2-8^0 in sealable plastic bags for 2-5 days.

Further Reading

1. Ajello L., George L., Kaplan W. and Kaufman L., 1966, CDC Laboratory Manual of Medical Mycology, Atlanta, Ga.: US. DHEW, Center for Disease Control.
2. McDonough E., George L., Ajello L. and Brinkman S., 1960, Mycopathol. Mycol. Appl; 13:113.
3. Patrich R. Murray, Baron, Pfaller, and Yolken (Eds.) 2003, In Manual of Clinical Microbiology, 8th ed, ASM, Washington, DC.

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