

Technical Information

Sabouraud Cycloheximide Chloramphenicol MiVeg Agar

Product Code :VM1664

Application:- Sabouraud Cycloheximide Chloramphenicol MiVeg Agar is used for selective isolation and cultivation of pathogenic fungi.

Composition

Ingredients	Gms / Litre
MiVeg peptone	10.0
Dextrose	20.0
Cycloheximide	0.5
Chloramphenicol	0.04
Agar	15.0
Final pH (at 25°C)	6.8 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Sabouraud Cycloheximide Chloramphenicol MiVeg Agar is prepared by using Veg peptone instead of Peptic digest of animal tissue thereby making the medium free from BSE/TSE risks. This medium is the modification of Sabouraud Cycloheximide Chloramphenicol Agar which in turn is the modification of Sabouraud Dextrose Agar which was developed by Emmons (2) who modified the original formulation of Sabouraud (1) by reducing the dextrose content and adjusting the pH close to neutral.

MiVeg peptone supplies the nitrogenous source while dextrose serve as an energy source for the growth of microorganisms. The media can be rendered selective for fungi by incorporating certain antibiotics such as Chloramphenicol (4) and Cycloheximide (5) which inhibits gram-positive and gram-negative bacteria as well as some saprophytic fungi to grow. This medium inhibits the growth of pathogenic yeasts like *Cryptococcus neoformans* and certain *Candida* species. *Aspergillus* grows poorly on this media but it favours the growth of dermatophytes.

Methodology

Suspend 45.54 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. Mix well before pouring into sterile petri plates.

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

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

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

Reaction

Reaction of 4.55% w/v aqueous solution is pH 6.8 ± 0.2 at 25°C.

pH Range

6.6 - 7.0

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 25 -30°C for 2-3 days.

Organisms (ATCC)	Growth
<i>Aspergillus niger</i> (16404)	none- poor
<i>Candida albicans</i> (10231)	poor-good
<i>Escherichia coli</i> (25922)	inhibited
<i>Saccharomyces cerevisiae</i> (9763)	none- poor
<i>Trichophyton mentagrophytes</i> (9533)	luxuriant
<i>Trichophyton rubrum</i> (28191)	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 day.

Further Reading

1. Sabouraud R., 1892, Ann. Dermatol. Syphilol., 3:1061.
2. Emmons C., Binford C., Uty J. and Kwon-Chung, 1970, Medical Mycology, 2nd ed., Philadelphia: Lea and Febiger.
3. Diagnostic Procedures, 1963, 4th ed., APHA
4. Ajello L., 1957, J. Chron. Dis., 5:545.
5. MacFaddin J. F., 1985, Media For Isolation-Cultivation - Identification - Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore.

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