

Technical Information

Sabouraud Dextrose MiVeg Agar

Product Code : VM1063

Application:- Sabouraud Dextrose MiVeg Agar is used for the cultivation of yeasts, moulds and aciduric

Composition

Ingredients	Gms / Litre
MiVeg peptone No. 4	10.0
Dextrose	40.0
Agar	15.0
Final pH (at 25°C)	5.6 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Sabouraud Dextrose MiVeg Agar is prepared by using vegetables peptones in place of animal based peptones thus making the medium free from BSE/TSE risks. Sabouraud Dextrose MiVeg Agar is the modification of Carlier's formulation(1) which was formulated as described by Sabouraud (2) for the cultivation of fungi (yeasts, moulds) particularly useful for the fungi associated with skin infections.

MiVeg peptone No. 4 supplies nitrogenous compounds. Dextrose act as an energy source of the medium. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens (3). Agar acts as a solidifying agent. Infective spores of certain pathogenic fungi may be dispersed in air during handling, therefore it is advised to carryout entire examination under safety cabinet.

Methodology

Suspend 65 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.

Quality Control

Physical Appearance

Light yellow coloured, may have slight greenish tinge, homogenous, 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 6.5% w/v aqueous solution is pH 5.6 ± 0.2 at 25°C.

pH Range

5.4 - 5.8

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 30°C for 48-72 hours.

Organisms (ATCC)	Growth
<i>Aspergillus niger</i> (16404)	luxuriant
<i>Candida albicans</i> (10231)	luxuriant
<i>Escherichia coli</i> (25922)	luxuriant*

Saccharomyces cerevisiae (9763)

luxuriant

Trichophyton rubrum (28191)

luxuriant**

Key : * = inhibited on media with lower pH

** = growth upto 7 days

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.



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(Against dark background)

1. Control

2. *Candida albicans*

Further Reading

1. Carlier G. I. M., 1948, Brit. J. Derm. Syph., 60:61.

2. Sabouraud K., 1892, Ann. Dermatol. Syphilol, 3:1061.

3. Murray PR, Baren EJ, Pfaller MA, Tenover FC, Tenover MC (editors) 2003, Manual of Clinical Microbiology, 8th ed., ASM, Washington, D.C.

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