

Technical Information

Sabouraud Maltose MiVeg Broth

Product Code : VM1064

Application:- Sabouraud Maltose MiVeg Broth is recommended for the cultivation of moulds, yeasts, particularly the parasitic fungi concerned with skin and scalp lesions.

Composition

Ingredients	Gms / Litre
MiVeg peptone No. 4	10.0
Maltose	40.00
Final pH (at 25°C)	5.6 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Sabouraud Maltose MiVeg Broth is prepared by adding vegetable peptones in place of animal based peptones thus making the medium free from BSE/TSE risks. This medium is the modification of Sabouraud Maltose Broth which was formulated as described by Sabouraud (1) for the cultivation of fungi.

MiVeg peptone No.4 and maltose supplies the nutrients required for the growth of fungi. This medium selectively inhibits wide range of bacteria due to the low pH. Although acidic pH is favourable for the growth of fungi, some fungi may be inhibited by it (2, 3). Selective medium should be inoculated simultaneously for the isolation of fungi from contaminated specimens. Incubate cultures for 4 to 6 weeks before reporting as negative.

Methodology

Suspend 50 grams of powder media in 1000 ml distilled water. Mix thoroughly and heat to boiling to dissolve the medium completely. Mix well before pouring into tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Colour and Clarity of prepared medium

Light amber coloured, clear solution in tubes.

Reaction

Reaction of 5.0% 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)	good to luxuriant
<i>Candida albicans</i> (10231)	good to luxuriant
<i>Escherichia coli</i> (25922)	good to luxuriant



Dehydrated Culture Media
Bases / Media Supplements

Saccharomyces cerevisiae (9763) good to luxuriant

Trichophyton rubrum (28191) good to 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, Binford, Utz and Kwar-Chung, 1977, Medical Mycology, Lea and Febiger, Philadelphia.
3. Murray PR, Baron, Pfaller, and Tenover (Eds.), 2003, In Manual of Clinical Microbiology, 8th ed ASM, Washington, D.C.

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