

Technical Information

SABHI MiVeg Agar Base

Product Code :VM1409

Application:- SABHI MiVeg Agar Base with Chloramphenicol added supplement is used for the cultivation and isolation of pathogenic fungi especially dermatophytes.

Composition

Ingredients	Gms / Litre
MiVeg special infusion	4.11
MiVeg infusion	5.14
MiVeg peptone No. 3	5.0
MiVeg special peptone	5.0
Dextrose	21.0
Sodium chloride	2.5
Disodium phosphate	1.25
Agar	15.0
Final pH (at 25°C)	7.0 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

SABHI MiVeg Agar Base is prepared by adding vegetable peptones in place of animal based peptone thus making the medium free from BSE/TSE risks. SABHI MiVeg Agar Base is the modification of SABHI Agar Base which was formulated as described by Gorman (1) for the cultivation and isolation of pathogenic fungi like dermatophytes and also non-pathogenic fungi from clinical and non clinical specimens (2). It is useful for maximum recovery of *Blastomyces dermatitidis* and *Histoplasma capsulatum* from body tissues and fluids. Addition of blood improves recovery of *Histoplasma capsulatum* and helps conversion of *Histoplasma capsulatum* and *Blastomyces dermatitidis* to the yeast phase.

MiVeg special infusion, MiVeg infusion, MiVeg peptone No.3 and MiVeg special peptone supplies nitrogenous nutrients, carbon, sulphur and trace elements essential for fungal growth. Dextrose in the medium serves as carbon and energy source to the growing fungi. Sodium chloride maintains osmotic balance. Chloramphenicol inhibits many gram-negative bacteria. Some fungi may also be inhibited by the antibiotics in this selective medium.

Methodology

Suspend 29.5 grams of powder media in 500 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. Cool to 50-55°C and aseptically add 1 vial of rehydrated contents of Chloramphenicol Selective Supplement (MS2033). Mix well and dispense into sterile tubes or plates and allow to solidify in a slanted position. 10% v/v sterile sheep or human blood added to base to prepare blood agar before dispensing into sterile tubes or plates.

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

Basal medium forms yellow coloured, clear gel. With addition of 10% v/v blood, cherry red coloured opaque gel forms in petri plates.

Reaction

Reaction of 5.9% w/v aqueous solution is pH 7.0 \pm 0.2 at 25°C.

pH Range

6.8 - 7.2

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 25-30°C for 40-48 hours with added Chloramphenicol Selective Supplement (MS2033).

Organisms (ATCC)	Growth w/o blood	Growth w/blood
<i>Aspergillus niger</i> (16404)	Good	Good
<i>Candida albicans</i> (10231)	Good-luxuriant	luxuriant
<i>Escherichia coli</i> (25922)	inhibited	inhibited
<i>Saccharomyces cerevisiae</i> (9763)	Good-luxuriant	luxuriant
<i>Saccharomyces uvarum</i> (9080)	Good-luxuriant	luxuriant
<i>Staphylococcus aureus</i> (25923)	inhibited	inhibited

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. Gorman, 1967, Am. J. Med. Technol., 33:151.
2. Murray PR, Baron, Pfaller, and Tenover (Eds.), 2003, In Manual of Clinical Microbiology, 8th ed., ASM, Washington, D.C.

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 infringement of any patents. Do not use the products if it fails to meet specifications for identity and performance parameters.