



Technical Data

Sabouraud Chloramphenicol HiVeg™ Agar

MV1067

Sabouraud Chloramphenicol HiVeg™ Agar is recommended for selective cultivation of yeasts and moulds.

Composition**

Ingredients	Gms / Litre
HiVeg hydrolysate	5.000
HiVeg peptone	5.000
Dextrose	40.000
Chloramphenicol	0.050
Agar	15.000
Final pH (at 25°C)	5.6±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 65.05 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

Caution: Some pathogenic fungi may produce infective spores which are easily dispersed in air, so examination should be carried out in safety cabinet.

Principle And Interpretation

Sabouraud Chloramphenicol HiVeg™ Agar is prepared by completely replacing animal based peptones with vegetable peptones making the medium free of BSE/TSE risks. It is a modification of Sabouraud Dextrose Agar described by Sabouraud (2) which is the modification of Carlier's (1) formulation and used for the cultivation of fungi, particularly useful for the fungi associated with skin infections. The medium is often used with antibiotics such as Chloramphenicol (3) for the isolation of pathogenic fungi from materials containing large numbers of fungi or bacteria.

HiVeg hydrolysate and HiVeg Peptone provides nitrogenous compounds. Dextrose provides an energy source. Chloramphenicol inhibits a wide range of gram-positive and gram-negative bacteria making the medium selective for fungi (4). The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens (5).

Quality Control

Appearance

Cream to yellow may have green 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 6.505% w/v aqueous solution at 25°C. pH : 5.6±0.2

pH

5.40-5.80

Cultural Response

Cultural characteristics observed after an incubation at 20-25°C for 48-72 hours (Incubate for 7 days for Trichophyton species).

Cultural Response

Organism	Inoculum (CFU)	Growth	Recovery
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Cultural Response

<i>*Aspergillus brasiliensis</i> ATCC 16404	50-100	good-luxuriant	
<i>Candida albicans</i> ATCC 10231	50-100	good-luxuriant	>=50%
<i>Escherichia coli</i> ATCC 25922	>=10 ³	inhibited	0%
<i>Lactobacillus casei</i> ATCC 334	>=10 ³	inhibited	0%
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	good-luxuriant	>=50%
<i>Trichophyton rubrum</i> ATCC 28191	50-100	good-luxuriant	
<i>Escherichia coli</i> NCTC 9002	>=10 ³	inhibited	0%
<i>Escherichia coli</i> ATCC 8739	>=10 ³	inhibited	0%

Key : Formerly known as *Aspergillus niger*

Storage and Shelf Life

Store dehydrated medium and prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. Carlier G. I. M., 1948, Brit. J. Derm. Syph., 60:61.
2. Sabouraud K., 1892, Ann. Dermatol. Syphilol, 3:1061.
3. Ajello L., 1957, J. Chron. Dis., 5:545.
4. Lorian (Ed.), 1980, Antibiotics In Laboratory Medicine, Williams and Wilkins, Baltimore.
5. Lennette and others (Eds.), 1985, Manual of Clinical Microbiology, 4th ed., ASM, Washington, D.C.

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