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. Cool to 45-50°C. 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 and carbonaceous compounds, long chain amino acids and other essential growth nutrients. 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 6.51% 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

Cultural Response

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

Key : Formerly known as Aspergillus niger

Storage and Shelf Life

Store dehydrated medium at 15-25°C in tightly closed container 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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