

Sabouraud Cycloheximide Chloramphenicol HiVeg™ Agar**MV664**

Sabouraud Cycloheximide Chloramphenicol HiVeg Agar is used for selective isolation and cultivation of pathogenic fungi.

Composition ** :

Ingredients	Grams/Litre
HiVeg peptone	10.0
Dextrose	20.0
Cycloheximide	0.5
Chloramphenicol	0.04
Agar	15.0

Final pH (at 25°C) 6.8 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Directions :

Suspend 45.54 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.

Warning : Cycloheximide is very toxic. Avoid skin contact or aerosol formation and inhalation.

Principle and Interpretation :

Sabouraud Cycloheximide Chloramphenicol HiVeg Agar is prepared by replacing Peptic digest of animal tissue with HiVeg peptone which is free from BSE/TSE risks. Sabouraud Cycloheximide Chloramphenicol HiVeg Agar is the modification of Sabouraud Cycloheximide Chloramphenicol Agar which is in turn the modification of Sabouraud Dextrose Agar which was developed by Emmons (2) who modified the original formulation of Sabouraud (1) by reducing the dextrose content and adjusting the pH close to neutral.

HiVeg peptone is the source of nitrogenous growth factors while dextrose provides an energy source for the growth of microorganisms. The media can be rendered selective for fungi by using different antibiotics such as Chloramphenicol (4) and Cycloheximide (5) which inhibits gram positive and gram negative bacteria as well as some saprophytic fungi. This medium inhibits pathogenic yeasts like *Cryptococcus neoformans* and certain *Candida* species. *Aspergillus* grows poorly on this media but favours the growth of dermatophytes.

Product Profile :

Vegetable based (Code MV)©		Animal based (Code M)	
MV664	HiVeg peptone	M664	Peptic digest of animal tissue
Recommended for	:	Selective isolation and cultivation of pathogenic fungi.	
Reconstitution	:	45.54 g/l	
Quantity on preparation (100g)	:	2.19 L	
pH (25°C)	:	6.8 ± 0.2	
Supplement	:	None	
Sterilization	:	121°C / 15 minutes.	
Storage : Dry Medium and Prepared Medium 2 - 8°C.			

Quality Control :**Appearance of powder**

Yellow coloured, may have a slightly greenish tinge, homogeneous, free flowing powder.

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity

Yellow coloured, clear to slightly opalescent gel forms in petri plates.

Reaction

Reaction of 4.55% w/v aqueous solution is pH 6.8 ± 0.2 at 25°C.

Cultural Response

Cultural characteristics observed after an incubation at 25 - 30°C for 2 - 3 days.

Organisms (ATCC)

Organisms (ATCC)	Growth
<i>Aspergillus niger</i> (16404)	none - poor
<i>Candida albicans</i> (10231)	poor - good
<i>Escherichia coli</i> (25922)	inhibited
<i>Saccharomyces cerevisiae</i> (9763)	none - poor
<i>Trichophyton mentagrophytes</i> (9533)	luxuriant
<i>Trichophyton rubrum</i> (28191)	luxuriant

References :

- Sabouraud R., 1892, Ann. Dermatol. Syphilol., 3:1061.
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