

Candida BCG HiVeg™ Agar Base**MV355**

Candida BCG HiVeg Agar Base with Neomycin addition is used for primary isolation and identification of *Candida* species.

Composition ** :

Ingredients	Grams/Litre
HiVeg peptone	10.0
Yeast extract	1.0
Dextrose	40.0
Bromo cresol green	0.02
Agar	15.0

Final pH (at 25°C) 6.1 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Directions :

Suspend 66 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 50°C and add sterile Neomycin to a concentration of 500 mcg/ml. Mix well before pouring into sterile petri plates.

Principle and Interpretation :

This medium is prepared by replacing Peptic digest of animal tissues with HiVeg peptone thus making the medium BSE/TSE risk free. Candida BCG HiVeg Agar Base is the modification of Candida BCG Agar Base formulated by Harold and Snyder and documented by Haley and Callaway (1).

HiVeg peptone and yeast extract provide nitrogenous nutrients. Neomycin is an aminoglycoside antibiotic that is active against aerobic and facultatively anaerobic gram negative bacteria and certain gram-positive species. Bromo cresol green aids in differentiation and identification of *Candida* species based on dextrose fermentation. The colour of medium changes from blue green to yellow due to fermentation of dextrose and subsequent drop in pH.

Quality Control :**Appearance of powder**

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

Product Profile :

Vegetable based (Code MV)Ⓞ	Animal based (Code M)
MV355 HiVeg peptone	M355 Peptic digest of animal tissue

Recommended for : Isolation and identification of *Candida* species

Reconstitution : 66.0 g/l

Quantity on preparation (500g): 7.57 L

pH (25°C) : 6.1 ± 0.2

Supplement : Neomycin

Sterilization : 121°C / 15 minutes.

Storage : Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity

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

Reaction

Reaction of 6.6% w/v aqueous solution is pH 6.1 ± 0.2 at 25°C.

Cultural Response

Cultural characteristics observed after an incubation at 25 - 30°C for 24 - 48 hours, with added sterile Neomycin (500 mcg / ml of medium).

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery	Colour of medium
<i>Candida albicans</i> (10231)	10 ² -10 ³	luxuriant	>70%	yellow
<i>Candida glabrata</i>	10 ² -10 ³	luxuriant	>70%	yellow
<i>Candida krusei</i> (24408)	10 ² -10 ³	luxuriant	>70%	yellow
<i>Candida tropicalis</i> (1369)	10 ² -10 ³	luxuriant	>70%	yellow
<i>Escherichia coli</i> (25922)	10 ² -10 ³	inhibited	0%	green
<i>Staphylococcus aureus</i> (25923)	10 ² -10 ³	inhibited	0%	green

References :

- Haley L.D., and Callaway C.S. 1978, Laboratory Methods in Medical Mycology, 4th ed., U.S. Government Printing Office, Washington, D.C.