

Technical Information

Candida BCG MiVeg Agar Base

Product Code : VM1355

Application:- Candida BCG MiVeg Agar Base with Neomycin addition is recommended for primary isolation and identification of *Candida* species.

Composition

Ingredients	Gms / Litre
MiVeg 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.

Principle & Interpretation

Candida BCG MiVeg Agar Base is prepared by MiVeg peptone in place of peptic digest of animal tissues which makes the medium BSE/ TSE risk free. This medium is the modification of Candida BCG Agar Base formulated by Harold and Snyder and documented by Haley and Callaway (1).

This medium contains MiVeg peptone and yeast extract which supplies nitrogenous nutrients. Neomycin is an aminoglycoside antibiotic which inhibits aerobic and facultatively anaerobic gram negative bacteria and certain gram-positive species. Bromo cresol green helps in differentiation and identification of *Candida* species based on dextrose fermentation. Due to fermentation of dextrose and subsequent drop in pH occurs which changes the colour of medium from blue green to yellow.

Methodology

Suspend 66grams of powder media in 1000 ml distilled water. Mix thoroughly. 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.

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

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

Reaction

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

pH range

5.9-6.3

Cultural Response/Characteristics

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 colony
<i>Candida albicans</i> (10231)	10 ² -10 ³	luxuriant	>70%	yellow
<i>Candida glabrata</i>	10 ² -10 ³	luxuriant	>70%	yellow



Dehydrated Culture Media
Bases / Media Supplements

<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

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 days.

Further Reading

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

Disclaimer :

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