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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Candida BCG Agar Base

Principle

Candida BCG Agar Base is used for differentiation of pure yeast colonies from mixed cultures on the basis of colony morphology. The medium contains yeast extract, peptone, dextrose, bromocresol purple and agar. Yeast extract and peptone provide nitrogenous compounds, carbon, cofactors and other nutrients essential for growth. Dextrose is serves as the fermentable carbohydrate, provide energy for metabolic reaction. Bromocresol purple is pH indicator and agar is solidifying agent. The media is fortified with neomycin sulphate. Neomycin is incorporated to inhibit gram-negative bacteria and some gram-positive bacteria. Neomycin is an aminoglycoside antibiotic that is active against aerobic and facultatively anaerobic gramnegative bacteria and certain gram-positive bacteria. The fermentation of dextrose is detected by the acid production. Due to fermentation of carbohydrate the pH of the medium decreases and subsequently the colour of medium changes to yellow, indicated by yellow zones around the dextrose-fermenting colonies. C. albicans appears as blunt conical colonies with smooth edges and yellow to blue green colour. Other Candida species appear as smooth to rough colonies, with either convex or cone shaped colonies. Presumptive Candida colonies should be further identified by gram staining, biochemical and serological testing.

Use: For primary isolation and identification of Candida species.

Contents*

Ingredients	Gram/Litre
Peptone	10.000
Yeast Extract	1.000
Dextrose	40.000
Bromocresol green	0.020
Agar	15.000
pH at 25˚C	6.1 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 66.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and add sterile neomycin sulphate in the concentration of 500 ug/ml. Mix well and pour into sterile petri plates.

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Specimens types analyzed

Clinical samples, Water samples and Food samples.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	**Light beige colour with green ting, free-flowing, homogeneous**
Reaction of 6.60 % solution	**6.1 ±0.2 at 25 ˚C**
pH	**5.90- 6.30**
Gelling	**Firm comparable with 1.5 % agar gel**
Color and clarity of ready medium	**Blue green colour, clear opalescent gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 32-37 ºC for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response

Cultural characteristics observed after incubation at 25-30°C for 24-48 hours

Organism	ATCC	Growth	Recovery	Colour of medium
Candida albicans	**10231**	**Luxurious**	**≥ 50%**	**Yellow**
Candida tropicalis	**750**	**Luxurious**	**≥ 50%**	**Yellow**
Escherichia coli	**8739**	**Inhibited**	**--**	**--**

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Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.
Note: Sterilize media immediately after reconstitution

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. **Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.**
2. ***Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**
3. **Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) *Manual of Clinical Microbiology*, 11th Edition. Vol. 1.**
4. **Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Yolken R. H., (Eds.), (2003), Manual of Clinical Microbiology, 8th Ed. *American Society for Microbiology*, Washington, D.C.**

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