OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Candida Agar (Candida Isolation Agar)

Principle

Candida Agar is formulated by Fung and Liang (1988), medium contains yeast extract, peptone, dextrose, malt extract, aniline blue and agar. Yeast extract, malt 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. Aniline blue is a fluorescent indicator and agar is solidifying agent.

Use: Recommended for isolation and differentiation of *Candida albicans*.

Contents*

Ingredients	Gram/Litre
Yeast Extract	3.000
Malt Extract	3.000
Peptone	5.000
Dextrose	10.000
Aniline Blue	0.100
Agar	20.000
pH at 25˚C	6.2 ±0.2

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

Directions: Dissolve 41.00 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. Mix well and pour into sterile petri plates.

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.

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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, free-flowing, homogeneous**
Reaction of 4.10 % solution	**6.2 ±0.2 at 25 ˚C**
pH	**6.00- 6.40**
Gelling	**Firm comparable with 2.0 % agar gel**
Color and clarity of ready medium	**Blue green color, 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

Organism	**ATCC**	**Growth**	**Recovery**	**Fluorescence**
Candida albicans	**10231**	**Luxurious**	**50-70 %**	**Positive reaction Yellow green fluorescence**
Candida tropicalis	**1369**	**Luxurious**	**50-70 %**	**Variable reaction**
Bacillus subtilis	**6633**	**Luxurious**	**50-70 %**	**Negative reaction No fluorescence**

Storage and Shelf Life

Hygroscopic; keep container tightly closed. Store in cool dry place.

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.

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Reference

1. **Fung D. Y. and Liang C., (1988) A new fluorescent agar for the isolation of *Candida albicans. Bull. Inf. Lab. Serv. Vet. (France)* 29/30:1-2**
2. **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.**

Disclaimer:

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