

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 serves as the fermentable carbohydrate, provide energy for metabolic reaction. Aniline blue is a fluorescent indicator and agar is solidifying agent

Use: 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 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C 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. Inoculum 50-100 CFU.

Organism	ATCC	Growth	Recovery	Fluorescence
<i>Candida albicans</i>	10231	Luxuriant	≥ 70%	Positive reaction Yellow green fluorescence
<i>Candida tropicalis</i>	1369	Luxuriant	≥ 70%	Variable reaction
<i>Bacillus subtilis</i>	6633	Luxuriant	≥ 70%	Negative reaction No fluorescence
<i>Escherichia coli</i>	8739	Luxuriant	≥ 70%	Negative reaction No fluorescence

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.

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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 Tenover F. C., (Eds.), (2003), *Manual of Clinical Microbiology*, 8th Ed. American Society for Microbiology, Washington, D.C.

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