

Czapek-Dox Agar

Product No.	Product Category	Specification
HCM122	Dehydrated Culture Medium	500g/bottle

Intended Use

It is used for the cultivation of fungi and bacteria that can utilize nitrate as the sole nitrogen source, as well as for the isolation, cultivation, and morphological identification of molds such as *Penicillium* and *Aspergillus*.

Principle and Interpretation

Sodium nitrate provides a nitrogen source; dipotassium hydrogen phosphate serves as a buffer; magnesium sulfate, potassium chloride, and ferrous sulfate supply essential ions; sucrose provides a carbon source; and agar is the solidifying agent of the medium.

Formulation

Ingredients	/liter
Sodium nitrate	3.0g
Dipotassium hydrogen phosphate	1.0g
Magnesium sulfate heptahydrate	0.5g
Potassium chloride	0.5g
iron(II) sulfate heptahydrate	0.05g
Sucrose	30.0g
Agar	15.0g
pH7.3±0.2 at 25°C	

Preparation

Weigh 50 g of this product, add 1 L of distilled water or deionized water, stir and heat to boil until completely dissolved. Then, dispense it into Erlenmeyer flasks and autoclave at 121°C for 15 minutes.

Quality Control

Cultural characteristics observed after incubation at 25-28°C for 5-14 days

Quality control strains	Approx. Inoculum(CFU)	Expected Results	
		Growth	Characteristics
<i>Aspergillus brasiliensis</i> ATCC16404	10-100	Turbid growth	The hyphae are white and the spores are black.

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Technical Data Sheet



<i>Candida albicans</i> ATCC10231	10-100	Turbid growth	Creamy white
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Storage and Shelf Life

2-30°C, keep container tightly closed, avoid direct sunlight.

Use before expiry date on the label.

Precautions

1. When weighing the dehydrated medium, please wear masks to avoid causing respiratory system discomfort
2. Keep container tightly closed after using to prevent clumping.

Waste Disposal

Microbiological contamination was disposed by autoclaving at 121°C for 30 minutes.

Revision

On June 14, 2024

References

GB 4789.16-2016 National Standard of the People's Republic of China - Microbiological examination of food hygiene - Identification of common toxigenic molds.

A. Banerjee, A.K. Banerjee, Assay of Capstan using *B. megaterium*, Ind. J. Expt. Biol. 26, 641(1988)

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