

MM0238

Czapek Dox Agar

Use and description:

This medium is for cultivation of fungi which are able to utilise sodium nitrate as the sole source of nitrogen. The medium is recommended for the isolation of non-pathogenic and pathogenic fungi, specially for chlamydospore production of *Candida Albicans*. Lowering the pH to 3.5 is favourable for fungi and slightly inhibitory to contaminating bacteria.

Composition per liter:

Sodium Nitrate	2.00 g
Potassium Chloride	0.50 g
Magnesium glycerophosphate	0.50 g
Ferrous sulphate	0.01 g
Potassium sulphate	0.35 g
Sucrose	30.00 g
Agar	12.00 g

Final pH of the ready to use medium: 6.8 ± 0.2

Medium preparation: Add 45.5 grams of dehydrated culture medium to 1 liter of distilled water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve. Distribute and autoclave at 121°C for 15 minutes. Add necessary amount of 10 % lactic acid solution if lowering the pH was desired.

Quality specifications:

Dehydrated medium: homogeneous, white coloured fine powder.
Ready to use medium off white colored agar

Microbiological Response after 24 hours at 28 °C:

Organism	Result
<i>Aspergillus niger</i> ATCC 16404	Woolly and black mycelium
<i>Candida albicans</i> ATCC 10231	Off-white creamy colonies

Storage: Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or if the color has changed from the original.