

Product Data Sheet

CZAPEK DOX AGAR

Product No. GB-DCM-00104-1A

INTENDED USE

Semisynthetic medium for general cultivation of fungi.

PRODUCT SUMMARY

Fungi, including yeasts and filamentous species or moulds are ubiquitously distributed in nature. Czapek Dox Agar is a semisynthetic medium used for the cultivation of fungi, containing sodium nitrate as the sole source of nitrogen. This medium is prepared according to the formula developed by Thom and Church, which has a defined chemical composition. Czapek Dox Agar is recommended by APHA for isolation of *Aspergillus*, *Penicillium*, *Paecilomyces* and some other fungi with similar physiological requirements.

Product Specifications

Ingredients	Gms / Ltr
Sucrose	30.000
Sodium nitrate	2.000
Dipotassium phosphate	1.000
Magnesium sulphate	0.500
Potassium chloride	0.500
Ferrous sulphate	0.010
Agar	15.000

INSTRUCTION FOR USE

- Dissolve 49.01 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes. Cool to 45-50°C.
- Mix well and pour into sterile Petri plates.

PRINCIPLE

Sucrose serves as the sole source of carbon while sodium nitrate serves as the sole source of nitrogen. Dipotassium phosphate buffers the medium. Magnesium sulphate, potassium chloride, ferrous sulphate serves as sources of essential ions.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Cream to yellow to light pink homogeneous free flowing powder
 Appearance of prepared medium: Light yellow coloured, clear to slightly opalescent gel with a slight precipitate forms in Petri plates.
 pH (at 25°C) : 7.3±0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Aspergillus brasiliensis	16404	50-100	Luxuriant	≥70%	25-30°C	48-72 Hours
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Saccharomyces cerevisiae	9763	50-100	Luxuriant	≥70%	25-30°C	48-72 Hours

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.