

CM 20529 – CZAPEK DOX AGAR, MODIFIED

INTENDED USE

For cultivation and maintenance of fungi.

PRODUCT SUMMARY AND EXPLANATION

CzapekDox Agar, Modified supports the growth of organisms which are able to utilize sodium nitrate as the sole source of nitrogen. It is also used for the cultivation and maintenance of numerous fungal species and also for chlamydospore production by *Candida albicans*. The medium has been recommended by various authorities for studies of *Aspergillus*, *Penicillium* and *Actinomycetes*. Chlamydospore production can be observed by spreading the inoculum between the agar and the Petri plate.

COMPOSITION

Ingredients	Gms / Ltr
Sucrose	30.000
Sodium nitrate	2.000
Magnesium glycerophosphate	0.500
Potassium chloride	0.500
Dipotassium sulphate	0.350
Ferrous sulphate	0.010
Agar	12.000

PRINCIPLE

Sodium nitrate is the sole source of nitrogen while sucrose is the sole source of carbon. Magnesium glycerophosphate and potassium sulphate help in chlamydospore production by *C. albicans*.

INSTRUCTION FOR USE

Dissolve 45.36 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.

Mix well and pour into sterile Petri plates. For preparing selective media, acidify the media up to pH 3.0 - 4.0 by the addition of one vial of 10% Lactic acid solution.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: White to light yellow homogeneous free flowing powder.
Appearance of prepared medium	: Light yellow coloured, clear to slightly opalescent gel forms in Petri plates.
pH (at 25°C)	: 6.8±0.2

INTERPRETATION

Cultural characteristics observed after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Aspergillus fumigatus	1028	10-100	Luxuriant	>=70%	50°C	24-48 Hours
Aspergillus brasiliensis	16404	10-100	Luxuriant	>=70%	30°C	24-48 Hours
Candida albicans	10231	10-100	Luxuriant (Chlamydo spores formation)	>=70%	28°C	24-48 Hours
Pencillium notatum	10108	10-100	Luxuriant	>=70%	20-25°C	24-48 Hours
Saccharomyces cerevisiae	9763	10-100	Luxuriant	>=70%	25-30°C	24-48 Hours

PACKAGING:

Inpacksizeof500 gm bottles.

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

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

REFERENCES

1. Dawson and Christine O., 1962, Saboutaudia; 1:214.
2. Thom C. and Church M.B., 1926, The Aspergilli, Williams and Wilkins Co., Baltimore.
3. Thom C., 1930, The Penicillia, Williams and Wilkins Co., Baltimore.
4. Raper K.B. and Thom C., 1949, Manual of Penicillia, Williams and Wilkins Co., Baltimore.
5. Wakesman S.A., 1931, Principles of Soil Microbiology, Bailliere Thindall and Co., London.

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Cataloge Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedNet GmbH Buckrose 10, 48163 Moers, Germany</small>	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*For LabUse Only

