



PRODUCT SPECIFICATION SHEET

Czapek Dox Agar, Modified (Modified Czapek Dox Agar) (DM071)

Intended Use

Czapek Dox Agar, Modified (Modified Czapek Dox Agar) (DM071) is recommended for cultivation and maintenance of fungi.

Product Summary and Explanation

Fungi, including yeasts and filamentous species or moulds are ubiquitously distributed in nature. Dawson⁽¹⁾ employed Czapek Dox Agar, Modified for the identification of *Candida albicans* by chlamyospore formation in primary culture, using swabs taken from the mouth and from the vagina. This medium showed good chlamyospore production as compared to the original formulation. This medium has been modified by the substitution of magnesium glycerophosphate for magnesium sulfate and potassium phosphate in the original formula. Czapek-Dox media are useful in a variety of microbiological procedures, including soil microbiology and fungi and mildew resistance tests. Czapek Dox Agar, Modified The medium has been recommended by various authors for studies of *Aspergillus*, *Penicillium* and *Actinomycetes*.^(2,3,4,5)

Principles of the Procedure

Czapek Dox Agar, Modified contains Sucrose serves as the sole source of carbon and sodium nitrate serves as the sole source of nitrogen. Magnesium glycerophosphate and potassium sulphate help in chlamyospore production by *C. albicans*. Chlamyospore production can be observed by spreading the inoculum between the agar and the Petri plate.

Formula / Liter

Ingredients	Gms / Liter
Sucrose	30.00
Sodium nitrate	2.00
Magnesium glycerophosphate	0.50
Potassium chloride	0.50
Dipotassium sulphate	0.35
Ferrous sulphate	0.01
Agar	12.00
Final pH: 6.8 ± 0.2 at 25°C	
Formula may be adjusted and/or supplemented as required to meet performance specifications	

Precautions

1. For Laboratory Use only.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

Directions

1. Suspend 45.36 grams of the medium in one liter of distilled water.
2. Heat to boiling to dissolve the medium completely.
3. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.
4. Mix well and pour into sterile petri plates.
5. For preparing selective media, acidify the media upto pH 3.0 - 4.0 by the addition of one vial of 10% Lactic acid solution (MS045).





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Quality Control Specifications

Dehydrated Appearance	White to light yellow homogeneous free flowing powder
Prepared Medium	Light yellow coloured, clear to slightly opalescent gel forms in Petri plates
Reaction of 4.54% solution	pH 6.8 \pm 0.2 at 25°C
Gel Strength	Firm, comparable with 1.2% Agar gel

Expected Cultural Response: Cultural characteristics observed after an incubation at different temperatures for 24-48 hours.

Sr. No.	Organisms	Results to be achieved	
		Growth	Incubation Temperature
1.	<i>Aspergillus fumigatus</i> ATCC 1028	good-luxuriant	50°C
2.	<i>Aspergillus brasiliensis</i> ATCC 16404	good-luxuriant	30°C
3.	<i>Candida albicans</i> ATCC 10231	luxuriant (chlamydospores formation)	28°C
4.	<i>Pencillium notatum</i> ATCC 10108	good-luxuriant	20 - 25°C
5.	<i>Saccharomyces cerevisiae</i> ATCC 9763	good-luxuriant	25 - 30°C

The organisms listed are the minimum that should be used for quality control testing.

Test Procedure

Refer to appropriate references for standard test procedures.

Results

Refer to appropriate references and standard test procedures for interpretation of results.

Storage

Store the sealed bottle containing the dehydrated medium at 10 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light.

Expiration

Refer to the expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitations of the Procedure

1. For identification, organisms must be in pure culture. Morphological, biochemical and/or serological tests should be performed for final identification.
2. Consult appropriate texts for detailed information and recommended procedures.

Packaging

Product Name : Czapek Dox Agar, Modified (Modified Czapek Dox Agar)

Product Code : DM071

Available Pack sizes : 100gm/500gm

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.





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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.

Further Information

For further information please contact your local MICROMASTER Representative.



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DM071PSS,QAD/FR/024,Rev.00/01.01.2018

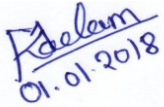
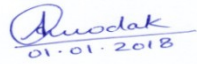

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