

TECHNICAL SHEET

B1001	CZAPEK DOX AGAR, MODIFIED				
Formula					
Ingredients :		gms/lit.			
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 (at 25°C) : 6.8 ± 0.2					
Directions :					
Suspend 45.36 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates. For preparing selective media, acidify the media upto pH 3.0 - 4.0 by the addition of one vial of 10% Lactic acid solution (BF079).					
Principle :					
Sucrose is the sole carbon source, and Sodium Nitrate is the sole nitrogen source. Dipotassium Phosphate is the buffering agent, and Potassium Chloride contains essential ions. Magnesium Sulfate and Ferrous Sulfate sources of cations. Agar is the solidifying agent.					
QC Tests – (I) Dehydrated Medium					
Colour :		Creamish white			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		6.8 ± 0.2			
Colour (post autoclaving/heating) :		Cream to light yellow			
Clarity (post autoclaving/heating) :		Clear to very slightly opalescent gel			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after an incubation at different temperatures for 24 -48 hours.					
MICROORGANISM (ATCC)		GROWTH		TEMPERATURE	
Aspergillus niger (16404)		Luxuriant		30°C	
Saccharomyces cerevisiae (9763)		Luxuriant		25° - 30°C	
Penicillium notatum		Luxuriant		20° -25°C	
Candida albicans (10231)		Luxuriant (chlamyospore formation)		28°C	
Aspergillus fumigatus		Luxuriant		50°C	
Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
Use :	For the cultivation and maintenance of numerous fungal species.				
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :	500 gm. Bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1001	45.36g/l	11.022L	6.8 ± 0.2	Nil	121°C / 15 minutes

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARK LABORATORIES publications.

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