

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B1001</b>	<b>CZAPEK DOX AGAR, MODIFIED</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
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						
<b>Directions :</b>						
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).						
<b>Principle :</b>						
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.						
<b>QC Tests – (I)Dehydrated Medium</b>						
Colour :		Creamish white				
Appearance :		Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>						
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				
<b>(III)Q.C. Test Microbiological</b>						
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 (chlamydospore formation)		28°C		
Aspergillus fumigatus		Luxuriant		50°C		
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>		For the cultivation and maintenance of numerous fungal species.				
<b>Storage :</b>		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>		500 gm. Bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1001</b>		45.36g/l	11.022L	6.8 ± 0.2	Nil	121°C / 15 minutes