

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B451</b>	<b>CANDIDA MEDIUM</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Mycological peptone		2.50			
Dextrose		5.00			
Dipotassium hydrogen phosphate		5.00			
Sodium sulphite		5.00			
Bismuth sulphite indicator		3.00			
Agar		15.00			
Final pH (at 25°C) : 7.6 ± 0.2					
<b>Directions :</b>					
Suspend 35.5 gms. in 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 50-52°C and aseptically add 0.3 units of Penicillin and 25µg Streptomycin per ml of sterile medium. Mix well and pour into sterile petri plates.					
<b>Principle :</b>					
Mycological peptone provides essential nitrogenous nutrients while dextrose acts as carbon source and phosphate maintains buffering action of medium. This medium contains sodium sulphite which is reduced by Candida species to form sulphide. Bismuth in the medium combines with the sulphide to produce brown to black pigmented colonies and zones of dark precipitate in the medium surrounding the colonies of some species. Bismuth sulphite also acts as an inhibitor of bacterial growth. Selectivity of medium is increased by incorporation of Penicillin and Streptomycin in the medium which helps to suppress the growth of many bacteria.					
<b>QC Tests - (I) Dehydrated Medium</b>					
Colour :		Cream to Yellow			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.6 ± 0.2			
Colour (post autoclaving/heating) :		Light yellow			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after		24-48 hrs.at 30°C.			
MICROORGANISM (ATCC )		GROWTH			
Candida albicans (10231 )		Good - Luxuriant			
Candida tropicalis (1369 )		Good - Luxuriant			
Escherichia coli (25922)		Inhibited			
<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 selective isolation and cultivation of Candida 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>B451</b>	35.5g/l	14.08L	7.6 ± 0.2	0.3 units of Penicillin and 25µg Streptomycin	121°C / 15 minutes

Refer disclaimer Overleaf

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