

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B382	RICHARD'S SYNTHETIC AGAR					
Formula						
Ingredients :			gms/lit.			
Potassium nitrate			10.00			
Monopotassium dihydrogen phosphate			5.00			
Magnesium sulphate			2.50			
Ferric Chloride			0.02			
Sucrose			50.00			
Agar			15.00			
Final pH (at 25°C): Self						
Directions:						
Suspend 82.52 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.						
Principle :						
Potassium nitrate is the source of nitrogen. Richard's Synthetic Agar is highly nutritive media with high content of sucrose which serves as carbohydrate source for the growing fungi. Various salts in the medium not only buffer the medium but also provide essential ions to the fungi.						
QC Tests - (I) Dehydrated Medium						
Colour :			White to yellow			
Appearance :			Homogeneous Free Flowing powder			
(II) Rehydrated medium						
pH (post autoclaving/heating) :			Self			
Colour (post autoclaving/heating) :			Light amber			
Clarity (post autoclaving/heating) :			Clear to slightly opalescent			
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 40 – 72 hrs. at 25-30°C.						
MICROORGANISM (ATCC)		GROWTH				
Aspergillus brasiliensis (16404)		Good - luxuriant				
Candida albicans (10231)		Good - luxuriant				
Saccharomyces cerevisiae (9763)		Good - luxuriant				
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 :		It is used for isolation and cultivation of fungi from soil samples.				
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
B382	82.52 g/l	6.05 L	Self	Nil	121°C/15 min.	

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 BIOMARKLABORATORIES publications.

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