

TECHNICAL SHEET

B364		YEAST MORPHOLOGY AGAR		
Formula				
Ingredients :		gms/lit.		
Ammonium sulphate		3.50		
Asparagine		1.50		
Dextrose		10.00		
L-histidine hydrochloride		0.01		
DL-methionine		0.02		
DL-tryptophan		0.02		
Biotin		0.000002		
Calcium pantothenate		0.0004		
Folic acid		0.000002		
Inositol		0.002		
Niacin		0.0004		
p-Amino benzoic acid (PABA)		0.0002		
Pyridoxine hydrochloride		0.0004		
Riboflavin (vitamin B2)		0.0002		
Thiamine hydrochloride		0.0004		
Boric acid		0.0005		
Copper sulphate		0.00004		
Potassium iodide		0.0001		
Ferric chloride		0.0002		
Manganese sulphate		0.0004		
Sodium molybdate		0.0002		
Zinc sulphate		0.0004		
Monopotassium phosphate		1.00		
Magnesium sulphate		0.50		
Sodium chloride		0.10		
Calcium chloride		0.10		
Agar		18.00		
Final pH (at 25°C) : 5.6 ± 0.2				
Directions :				
Suspend 35 gms. in 1000ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Pour into sterile petri plates to a depth of 1.5 mm. Allow the media surface to dry for one or two days at room temperature. Use light inoculum and make a single streak and two point inoculations near the other sides of the plate.				
Principle :				
The medium has been formulated as per Wickerham for studying colonial and cellular morphology of yeasts for classification purpose. For this, the inoculation is done by Dolman plate technique which is an excellent method for studying hyphae of filamentous yeasts. The technique essentially consists of streaking and spotting the inoculum on the same plate and the inoculum is partially covered by sterile cover glasses. In addition to this, the medium can also be used for bioassays of antifungal agents.				
QC Tests - (I) Dehydrated Medium				
	Colour :	Creamish white		
	Appearance :	Homogeneous Free Flowing powder		
(II) Rehydrated medium				
	pH (post autoclaving/heating) :	5.6 ± 0.2		
	Colour (post autoclaving/heating) :	Light amber		
	Clarity (post autoclaving/heating) :	Slightly opalescent		
(III) Q.C. Test Microbiological				
	Cultural characteristics observed after 6-7 days at 25 - 30°C.			
	MICROORGANISM (ATCC)	GROWTH		
	Kloeckera apiculata (9774)	Good		
	Saccharomyces uvarum (9080)	Good		

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 classification of yeasts on the basis of their colonial characteristics and cell morphology.				
Storage :	Dehydrated medium and prepared medium– Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B364	35 g/l	14.28 L	5.6 ± 0.2	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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