

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1348	YEAST MANNITOL AGAR W/CONGO RED				
Formula					
Ingredients :		gms/lit.			
Yeast extract			1.00		
Mannitol	10.00				
Dipotassium phosphate			0.50		
Magnesium sulphate	0.20				
Sodium chloride			0.10		
Congo red			0.025		
Agar	20.00				
Final pH (at 25°C) : 6.8 ± 0.2					
Directions :					
Suspend 31.82 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 :					
Medium is used for the cultivation of Rhizobium species and for studying root nodulation. Yeast extract serves as a good source of readily available amino acids, contain vitamin B complex and accessory growth factors for Rhizobia. It also poses oxidation – reduction potential of medium in the range favourable for Rhizobia and serves as hydrogen donor in respiratory process. Mannitol is the fermentable sugar alcohol source. Magnesium provide cations essential for the growth of Rhizobia. Agar is the solidifying agent. Congo red inhibits penicillin-susceptible strains. Colonies of Rhizobia stand out as white, translucent, glistening and elevated, with entire margins					
QC Tests – (I) Dehydrated Medium					
Colour :	Light yellow to pink				
Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium					
pH (post autoclaving/heating) :	6.8 ± 0.2				
Colour (post autoclaving/heating) :	Orange				
Clarity (post autoclaving/heating) :	Opalescent				
(III) Q.C. Test Microbiological					
Cultural characteristics observed up to 2-5 days at 25-30°C.					
MICROORGANISM (ATCC)	GROWTH	COLOUR of COLONY			
Rhizobium meliloti (9930)	Luxuriant	Pink			
Rhizobium japonicum (10324)	Luxuriant	Pink			
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 cultivation of Rhizobium 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
B1348	31.82 g/l	15.713 L	6.8 ± 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 BIOMARK LABORATORIES publications.

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