

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B304	PSEUDOMONAS ISOLATION AGAR					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		20.00				
Magnesium chloride		1.40				
Potassium sulphate		10.00				
Triclosan (Irgasan)		0.025				
Agar		13.60				
Final pH (at 25°C) :		7.0 ± 0.2				
Directions :						
Suspend 45.03gms. in 1000 ml. distilled water containing 20 ml glycerol. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
Peptic digest of animal tissue provides the carbon and nitrogen necessary for bacterial growth. Magnesium chloride and Potassium Sulfate promote production of pyocyanin. Triclosan (Irgasan), an antimicrobial agent, selectively inhibits gram – positive and gram – negative bacteria other than Pseudomonas spp. Agar is a solidifying agent. Glycerol serves as an energy source and also helps to promote pyocyanin production.						
QC Tests – (I) Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.0 ± 0.2				
Colour (post autoclaving/heating) :		Yellow				
Clarity (post autoclaving/heating) :		Clear to Slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 - 48 hrs. at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH	COLOUR OF COLONY			
Pseudomonas aeruginosa (10145)		Luxuriant	Green			
Pseudomonas aeruginosa (27853)		Luxuriant	Blue – blue-green			
Proteus mirabilis (25933)		Inhibited	-			
Escherichia coli (25922)		Inhibited	-			
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. 2. Some strains of Pseudomonas aeruginosa may fail to produce pyocyanin. 3. Non – Pseudomonas aeruginosa strains that are not completely inhibited on this medium may be encountered and must be differentiated from Pseudomonas aeruginosa. Consult appropriate references.				
Use :		For selective isolation and identification of Pseudomonas aeruginosa from clinical and nonclinical specimens.				
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
B304	45.03g/l		11.103L	7.0 ± 0.2	NIL	121°C / 15 minutes

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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