

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B542	GLUCOSE PEPTONE AGAR					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		20.00				
Dextrose		10.00				
Sodium chloride		5.00				
Agar		15.00				
Final pH (at 25°C) : 7.2 ± 0.2						
Directions :						
Suspend 50.0 grams in 1000 ml purified/distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well & pour in sterile Petri plates.						
Principle :						
Glucose Peptone Agar is recommended for general cultivation of wide variety of microorganisms. As it is rich in nutrients can also serve as excellent basal medium for glucose blood agar. With addition of suitable indicator, this medium can be used for the detection and cultivation of thermophilic organisms, associated with flat sour spoilage in Canned goods. Agrobacterium species can also grow abundantly on media containing dextrose as carbohydrate source. Glucose peptone Agar with addition of Bromo cresol purple (1% alcoholic solution) is suitable for cultivation of root nodulating bacteria. Peptone provides nitrogenous nutrients especially amino acids, and peptides. The presence of sodium chloride helps to maintain the osmotic balance. Dextrose serves as fermentable carbohydrate source and carbon source.						
QC Tests - (I) Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.2 ± 0.2				
Colour (post autoclaving/heating) :		Light yellow				
Clarity (post autoclaving/heating) :		Clear to slight opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 -24 hrs. at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH				
Agrobacterium tumefaciens		Good-Luxuriant				
Staphylococcus aureus (25923)		Good-Luxuriant				
Escherichia coli (25922)		Good-Luxuriant				
Pseudomonas aeruginosa (27853)		Good-Luxuriant				
Enterococcus faecalis (29212)		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 :		Highly nutritious medium that can support growth of fastidious microorganisms.				
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
B542	50g/l	10L	7.2 ± 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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