

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1021	EMERSON AGAR					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		4.00				
Meat extract B #		4.00				
Yeast extract		1.00				
Dextrose		10.00				
Sodium chloride		2.50				
Agar		20.00				
# Equivalent to beef extract						
Final pH (at 25°C) : 7.0 ± 0.2						
Directions :						
Suspend 41.5 gms. in 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. Add 0.05 gms/lit. Cycloheximide, if desired. Dispense and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
Emerson Agar was originally formulated by Emerson et al and it is used for the cultivation of moulds and bacterial species resembling moulds. This medium was further modified by Gottlieb et al to above formulation and is used for screening potent antibiotic producing organisms. It is also used for routine cultivation and maintenance of pure cultures. For the selective isolation of Streptomyces species, Cycloheximide is incorporated in the medium which limits the growth of moulds.						
QC Tests – (I) Dehydrated Medium						
Colour :		Yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.0 ± 0.2				
Colour (post autoclaving/heating) :		Light amber				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 48 - 72 hrs. at 30°C.						
MICROORGANISM (ATCC)		GROWTH				
Aspergillus niger (16404)		Luxuriant				
Saccharomyces cerevisiae (9763)		Luxuriant				
Streptomyces achromogenes (12767)		Luxuriant				
Streptomyces albus (3004)		Luxuriant				
Streptomyces lavendulae (8664)		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 :		For isolation and cultivation of Actinomycetaceae, Streptomycetaceae and moulds.				
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
B1021	41.5g/l		12.04L	7.0 ± 0.2	Cycloheximide	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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