

BIOMARK Laboratories-INDIA

www.biomarklabs.com

TECHNICAL SHEET

B652		NUTRIENT AGAR AS PER IP				
Formula						
Ingredients :		gms/lit.				
Peptone		10.00				
Beef Extract		10.00				
Sodium chloride		5.00				
Agar		12.00				
Final pH (at 25°C) : 7.3 ± 0.2						
Directions :						
Suspend 37.0 grams in 1000 ml purified/distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 10lbs pressure(115°C) for 30 minutes or alternatively at 15 lbs pressure (121°C) for 15 minutes						
Principle :						
Peptone and Beef extract provide the necessary nitrogen compounds, carbon, vitamins and also some trace ingredients. Sodium chloride maintains osmotic equilibrium. Nutrient media may be used as enriched media by the addition of 10% v/v blood or other biological fluids like ascitic fluid, serum etc.						
QC Tests - (I) Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.3 ± 0.2				
Colour (post autoclaving/heating) :		Light 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. Growth Promotion is carried out as per Indian Pharmacopoeia.						
MICROORGANISM (ATCC)		Inoculum (CFU)	Observed Lot value (CFU)	Recovery	Incubation period	
Escherichia coli (25922)		50 -100	35 -100	>=70 %	18 -24 hrs	
Pseudomonas aeruginosa (9027)		50 -100	35 -100	>=70 %	18 -24 hrs	
Staphylococcus aureus (25923)		50 -100	35 -100	>=70 %	18 -24 hrs	
Salmonella Typhimurium(14028)		50 -100	35 -100	>=70 %	18 -24 hrs	
Salmonella Abony NCTC (6017)		50 -100	35 -100	>=70 %	18 -24 hrs	
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 :		It is used as a general purpose culture medium which may be used as enriched medium by incorporating blood or other biological fluids in accordance with Indian Pharmacopoeia.				
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
B652		37.0 g/l	13.513 L	7.3 ± 0.2	NIL	121°C / 15 minutes