

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B550		NUTRIENT AGAR				
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		5.00				
Beef extract		1.50				
Yeast extract		1.50				
Sodium chloride		5.00				
Agar		15.00				
Final pH (at 25°C) : 7.4 ± 0.2						
Directions :						
Suspend 28 gms in 1000 ml. distilled water. Boil to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. If desired, the medium can be enriched with 5-10% blood or other biological fluids. Mix well and pour into sterile Petri plates.						
Principle :						
Nutrient Agar contains Beef Extract and Peptone as carbon and nitrogen sources for general growth requirements. Yeast extract provides essential vitamins. Agar is added as a solidifying agent.						
QC Tests – (I) Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.4 ± 0.2				
Colour (post autoclaving/heating) :		Cream to light amber				
Clarity (post autoclaving/heating) :		Clear				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 - 48 hrs at 35 - 37°C.						
MICROORGANISM (ATCC)		GROWTH				
Escherichia coli (25922)		Good – luxuriant				
Pseudomonas aeruginosa (27853)		Good – luxuriant				
Staphylococcus aureus (25923)		Good – luxuriant				
Streptococcus pyogenes (19615)		Good – luxuriant				
Salmonella Typhi (6539)		Good – luxuriant				
Salmonella Enteritidis (13076)		Good – luxuriant				
Salmonella Typhimurium (14028)		Good – luxuriant				
Yersinia enterocolitica (9610)		Good – luxuriant				
Yersinia enterocolitica (23715)		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:		For cultivation of less fastidious microorganisms, can be enriched with blood or other biological fluids.				
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
B550		28g/l	17.857L	7.4 ± 0.2	NIL	121°C / 15 minutes