

TECHNICAL SHEET

B745	STARCH AGAR				
Formula					
Ingredients :		gms/lit.			
Peptic digest of animal tissue		5.00			
Sodium chloride		5.00			
Yeast extract		1.50			
Beef extract		1.50			
Starch, soluble		2.00			
Agar		15.00			
Final pH (at 25°C) :		7.4 ± 0.2			
Directions :					
Suspend 30 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.					
Principle :					
Peptic digest of animal tissue, yeast extract and beef extract provide nitrogenous compounds, carbon, sulphur, trace elements etc. to the microorganisms. Sodium chloride maintains osmotic equilibrium. Flood the surface of 48 hours old culture on Starch Agar with Grams Iodine (BA087). Starch hydrolysis is seen as a colourless zone surrounding the colonies. A blue or purple zone indicates that starch is not hydrolyzed.					
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) :	Light to medium amber				
Clarity (post autoclaving/heating) :	Clear to slightly opalescent				
(III) Q.C. Test Microbiological					
Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours. (* - on addition of Iodine solution)					
MICROORGANISM (ATCC)	GROWTH	STARCH HYDROLYSIS*			
Bacillus subtilis (6633)	Luxuriant	positive reaction, clearing around the colony			
Escherichia coli (25922)	Luxuriant	negative reaction			
Staphylococcus aureus (25923)	Luxuriant	negative reaction			
Streptococcus pyogenes (19615)	Luxuriant	negative reaction			
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 detection of starch hydrolyzing 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
B745	30g/l	16.666L	7.4 ± 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 BIOMARKLABORATORIES publications.

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