

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B704</b>	<b>SA AGAR BASE</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Casein enzymic hydrolysate		10.00			
Sodium chloride		5.00			
Starch, soluble		1.00			
Phenol red		0.018			
Agar		15.00			
Final pH (at 25°C) : 7.4 ± 0.2					
<b>Directions :</b>					
Suspend 31.02 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. Cool to 45-50°C. Aseptically add rehydrated contents of 1 vial of Ampicillin Supplement (BF095). Mix well before pouring into sterile Petri plates.					
<b>Principle :</b>					
Casein enzymic hydrolysate in the medium provides essential growth nutrients. Sodium chloride maintains osmotic equilibrium. Ampicillin suppresses the contaminating microflora. Phenol red is the pH indicator.					
<b>QC Tests – (I)Dehydrated Medium</b>					
Colour :		Light yellow to pink			
Appearance :		Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.4 ± 0.2			
Colour (post autoclaving/heating) :		Red			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
<b>(III)Q.C. Test Microbiological</b>					
Cultural characteristics observed after an incubation at 30°C for 24-48 hours with added Ampicillin Supplement (BF095).					
MICROORGANISM (ATCC )		GROWTH	STARCH HYDROLYSIS		
Aeromonas hydrophila (7966)		Luxuriant	Positive, clearing around the colony		
Escherichia coli (25922)		Poor – fair	Negative, no clearing		
Staphylococcus aureus (25923)		Inhibited	Negative, no clearing		
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>	For isolation, cultivation and differentiation based on starch hydrolysis of Aeromonas hydrophila from foods as per APHA.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B704</b>	31g/l	16.129L	7.4 ± 0.2	1 vial of Ampicillin Supplement (BF095)	121°C / 15 minutes