

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B1354</b>	<b>KING A AGAR</b>					
<b>Formula</b>						
<b>Ingredients:</b>		<b>gms/lit.</b>				
Proteose peptone		20.00				
Potassium sulphate		10.00				
Magnesium chloride, anhydrous		1.64				
Agar		15.00				
Final pH (at 25°C) :		7.3 ± 0.2				
<b>Directions :</b>						
Suspend 46.64 grams in 1000 ml distilled water containing 10 ml of glycerol. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Aseptically pour into sterile Petri plates.						
<b>Principle :</b>						
Proteose peptone, which provides carbonaceous and nitrogenous compounds for the growth of bacteria. Glycerol serves as a source of energy and also enhances pigment production. Magnesium chloride, potassium sulphate and magnesium chloride also enhances pigment production.						
<b>QC Tests - (I) Dehydrated Medium</b>						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.3 ± 0.2				
Colour (post autoclaving/heating) :		Light yellow				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 18 - 24 hrs. at 35 - 37°C.						
MICROORGANISM (ATCC)		GROWTH		PIGMENT PRODUCTION		
Pseudomonas aeruginosa (27853)		good-luxuriant		Blue - green		
Pseudomonas aeruginosa (17934)		good-luxuriant		Blue - green		
Pseudomonas aeruginosa (9027)		good-luxuriant		Blue - green		
Burkholderia cepacia (25609)		good-luxuriant		no pigment		
<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>		It is used for non-selective isolation, cultivation and pigment production of Pseudomonas species.				
<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>B1354</b>	46.64g/l		10.720 L	7.3 ± 0.2	Glycerol	121°C / 15 minutes