B1354	KING A AGAR

Formula

Ingredients:	gms/lit.
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

Directions :

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.

Principle :

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.

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) :	Cream to yellow
Clarity (post autoclaving/heating) :	Clear to slightly opalescent
(III)Q.C. Test Microbiological	

Cultural characteristics observed after18 - 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 cepacian (25609)	good-luxuriant	no pigment

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 for non-selective isolation, cultivation and pigment production of Pseudomonas species.
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
B1354	46.64g/l	10.720 L	7.3 ± 0.2	Glycerol	121^0C / 15 minutes