

TECHNICAL SHEET

B567	K.R.A.N.E.P. AGAR BASE		
Formula			
Ingredients :		gms/lit.	
Peptic digest of animal tissue		5.00	
Sodium chloride		5.00	
Yeast extract		1.50	
Meat extract B#		1.50	
Potassium thiocyanate		25.50	
Sodium pyruvate		8.20	
Mannitol		5.10	
Lithium chloride		5.10	
Sodium azide		0.05	
Cycloheximide		0.041	
Agar		15.00	
#Equivalent to beef extract.			
Final pH (at 25°C) : 6.8 ± 0.2			
Directions :			
Suspend 71.99 grams in 900 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 50°C and aseptically add sterile 100 ml of Egg Yolk Emulsion (FD045). Mix well and pour into sterile Petri plates. Warning: Cycloheximide is very toxic and lithium chloride is harmful. Avoid skin contact or aerosol formation and inhalation. Sodium azide has a tendency to form explosive metal azides with plumbing materials, use enough water to flush off the disposables.			
Principle :			
Peptic digest of animal tissue, yeast extract and meat extract B supply essential growth nutrients. Cycloheximide inhibits most of the yeasts and moulds. Sodium azide inhibits bacterial contaminants as Enterococci, Sarcina and Proteus species. This medium was made selective by addition of selective agents and diagnostic agents. Potassium thiocyanate, mannitol, sodium azide, cycloheximide, and sodium pyruvate are used as selective growth stimulants.			
QC Tests - (I) Dehydrated Medium			
Colour :		Cream to yellow	
Appearance :		Homogeneous Free Flowing powder	
(II) Rehydrated medium			
pH (post autoclaving/heating) :		6.8 ± 0.2	
Colour (post autoclaving/heating) :		a) Basal medium: Light yellow. b) After addition of Egg Yolk Emulsion : Yellow	
Clarity (post autoclaving/heating) :		a) Clear to slightly opalescent b) Opaque	
(III) Q.C. Test Microbiological			
Cultural characteristics observed with added sterile Egg Yolk Emulsion (BF003) after an incubation at 35-37°C for 24-48 hours.			
MICROORGANISM (ATCC)	GROWTH	COLONY CHARACTERS	LECITHINASE
Staphylococcus aureus (25923)	Luxuriant	Golden shiny	+
Staphylococcus epidermidis (12228)	Luxuriant	White shiny	-
Escherichia coli (25922)	Inhibited	-	-
Candida albicans (10231)	Inhibited	-	-
Bacillus subtilis (6633)	Inhibited	-	-
Key: + = opaque zone around colony.			
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 selective enumeration of total Staphylococci from foodstuffs.		
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.		

Refer disclaimer Overleaf

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Packing:	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B567	71.99g/l	6.94L	6.8 ± 0.2	Egg Yolk Emulsion (BF003)	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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