BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B467	**CITRATE AGAR**
Formula	
Ingredients :	**gms/lit.**
Ammonium sulphate	0.50
Sodium nitrate	0.50
Magnesium sulphate	0.50
Dipotassium phosphate	0.50
Calcium chloride	0.20
Ferric ammonium citrate	10.00
Agar	15.00
Final pH (at 25°C) : 6.6 ± 0.2	
Directions :	
Suspend 27.2 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. Mix well and pour into sterile Petri plates.	
Principle :	
Dipotassium phosphate provides buffering to the medium. Magnesium sulphate, ammonium sulphate and calcium chloride are sources of ions that stimulate metabolism. Ferric ammonium citrate is used as a source of carbon and sodium nitrate acts as a source of nitrogen.	

QC Tests – (I)Dehydrated Medium			
	Colour :	Cream to greenish yellow	
	Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/heating) :	6.6 ± 0.2	
	Colour (post autoclaving/heating) :	Light amber	
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent gel	
(III)Q.C. Test Microbiological			
	Cultural characteristics observed after an incubation at 35-37°C for up to 7 days.		
	MICROORGANISM (ATCC)	GROWTH	
	Sphaerotilus natans (13338)	Good -Luxuriant	
	Escherichia coli (25922)	Inhibited	

Precautions :	1. For Laboratory Use.
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.
Limitations :	1. This medium is general purpose medium for soil bacteria and may not support the growth of fastidious organisms.
Use :	For cultivation of iron bacteria from soil samples.
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
B467	27.2g/l	18.38L	6.6 ± 0.2	nil	121^0C / 15 minutes