

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B467</b>	<b>CITRATE AGAR</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
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) : 6.7± 0.2					
<b>Directions :</b>					
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.					
<b>Principle :</b>					
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.					
<b>QC Tests – (I)Dehydrated Medium</b>					
Colour :		Cream to greenish yellow			
Appearance :		Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>					
pH (post autoclaving/heating) :		6.7 ± 0.2			
Colour (post autoclaving/heating) :		Light amber			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent gel			
<b>(III)Q.C. Test Microbiological</b>					
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			
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. This medium is general purpose medium for soil bacteria and may not support the growth of fastidious organisms.				
<b>Use :</b>	For cultivation of iron bacteria from soil samples.				
<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>B467</b>	27.2g/l	18.38L	6.7 ± 0.2	nil	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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