

**TECHNICAL SHEET**

<b>B139</b>	<b>CETRIMIDE BROTH</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Peptic digest of animal tissue		10.00				
Meat extract #		10.00				
Sodium chloride		5.00				
Cetrimide		0.30				
# Equivalent to beef extract						
Final pH (at 25°C) : 7.2 ± 0.2						
<b>Directions :</b>						
Suspend 25.3 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Dispense in tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C.						
<b>Principle :</b>						
It is selective medium due to the presence of Cetrimide (cetyltrimethylammonium bromide) which inhibits other bacteria except <i>Pseudomonas aeruginosa</i> . Cetrimide acts as a quaternary ammonium, cationic detergent which causes release of nitrogen and phosphorus from bacterial cells other than <i>Pseudomonas aeruginosa</i> . Peptic digest and meat extract B provide necessary nutrients for the <i>Pseudomonas aeruginosa</i> . Sodium chloride maintains osmotic equilibrium in the medium.						
<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) :		7.2 ± 0.2				
Colour (post autoclaving/heating) :		Light amber to yellow				
Clarity (post autoclaving/heating) :		Clear to very slightly opalescent				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 24-48 hrs at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH				
<i>Pseudomonas aeruginosa</i> (27853)		Luxuriant				
<i>Escherichia coli</i> (25922)		Inhibited				
<i>Staphylococcus aureus</i> (25923)		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. 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>						
For selective cultivation of <i>Pseudomonas aeruginosa</i> .						
<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>B139</b>		25.3g/l	19.76L	7.2 ± 0.2	nil	121°C / 15 minutes

Refer disclaimer Overleaf

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