

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B1452</b>	<b>MILK AGAR W/CETRIMIDE (TWIN PACK)</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
<b>Part A</b>						
Skim milk powder		133.33				
<b>Part B</b>						
Peptic digest of animal tissue		3.33				
Sodium chloride		1.67				
Yeast extract		1.00				
Cetrimide		0.40				
Agar		20.00				
Final pH (at 25°C) : 7.3 ± 0.2						
<b>Directions :</b>						
Suspend 26.4 grams of Part B in 250 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 20 minutes. Suspend 133.33 grams of Part A in 750 ml of distilled water and sterilize by autoclaving at 15 lbs pressure (121°C) for 5 minutes. After autoclaving mix Part A and B and pour into sterile Petri plates.						
<b>Principles :</b>						
Skim milk powder, peptic digest of animal tissue and yeast extract provide all the necessary nutrients mainly nitrogenous for the multiplication of <i>P.aeruginosa</i> . <i>P.aeruginosa</i> forms yellowish green colonies on this medium. Cetrimide acts as a quaternary ammonium, cationic detergent that causes release of nitrogen and phosphorus from bacterial cells other than <i>P.aeruginosa</i> .						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :		Part A : White to cream Part B : Cream to yellow				
Appearance :		Part A & B : Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.3 ± 0.2				
Colour (post autoclaving/heating) :		Light amber				
Clarity (post autoclaving/heating) :		Opalescent gel				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 24 - 48 hours at 35-37°C.						
MICROORGANISM (ATCC )		GROWTH		PIGMENT		
Escherichia coli (25922)		Inhibited				
Pseudomonas aeruginosa (27853)		Good - Luxuriant		Blue green		
Stenotrophomonas maltophilia (13637)		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>		It is used for the detection and enumeration of <i>Pseudomonas aeruginosa</i> in swimming pool waters. Recommended by ISO Committee under the specifications ISO 8360-1: 1988.				
<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>B1452</b>		159.73 (Part A +B) g/l	3.130 L	7.3 ± 0.2	NIL	121°C / 15 minutes