

**TECHNICAL SHEET**

<b>BB002</b>	<b>Cetrimide - MacConkey Agar</b>				
<b>Formula: Cetrimide Agar</b>		<b>MacConkey Agar</b>			
<b>Ingredients:</b>	<b>gms/lit</b>		<b>gms/lit</b>		
Pancreatic Digest of Gelatin	20.00	Peptone	1.50		
Magnesium Chloride	1.40	Tryptone	1.50		
Potassium Sulphate	10.00	Gelatin peptone	17.00		
Cetrimide	0.30	Lactose	10.00		
Agar	15.0	Bile Salts	1.50		
		Sodium chloride	5.00		
		Crystal violet	0.001		
		Neutral red	0.03		
		Agar	15.00		
Final pH (at 25°C): :7.2 ± 0.2		7.1±0.2			
<b>Directions:</b>					
1.Label the ready to use plate (BB002). streak the test inoculum (50-100 CFU) aseptically on the plate.					
2.Refer Technical Data of Cetrimide Agar (B975) & MacConkey agar w/0.15% Bile Salts, CV and NaCl (B238).					
<b>Principle:</b>					
Biplates has unique combination of two media. <b>Cetrimide Agar</b> is used as a selective medium for the isolation of Pseudomonas aeruginosa from pharmaceutical products. This medium is used for determining the ability of an organism to produce fluorescein and pyocyanin. Cetrimide (N-acetyl N, N, N-trimethylammonium bromide) is incorporated in the medium to inhibit bacteria other than Pseudomonas aeruginosa. Colonies of Pseudomonas aeruginosa may appear pigmented greenish (under UV light also). <b>MacConkey Agar</b> is a differential medium for the selection and recovery of the Enterobacteriaceae and related enteric gram-negative bacilli. This medium is prepared with crystal violet, NaCl and Bile salts. It is very selective and suppresses growth of a number of Gram-positive bacteria including staphylococci. Coliforms and Enterobacter give pink to red colonies on this medium and Escherichia coli gives pink to red colonies with bile precipitate.					
<b>(I) QC Tests</b>					
	pH:	Cetrimide Agar: 7.2 ± 0.2 MacConkey Agar: 7.1±0.2			
	Color:	Light amber coloured medium of Cetrimide Agar and Red coloured medium with purplish tinge of MacConkey Agar.			
	Appearance:	Sterile Cetrimide Agar and MacConkey Agar in 85mm disposable Biplates.			
<b>(II) Sterility test</b>		Passes release criteria			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after incubation at 35-37°C for 18-48 hours.					
	MICROORGANISM (ATCC)	GROWTH ON MACCONKEY AGAR	COLOR ON MAC AGAR	GROWTH ON CETRIMIDE AGAR	COLOR ON CETRIMIDE AGAR
	Escherichia coli 25922	Luxuriant	Pink-red w/ bile precipitate	-	-
	Staphylococcus aureus 25923	Inhibited	Colorless	Inhibited	-

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S. serotype enteritidis 13076	Luxuriant	Colorless	-	-
S. serotype paratyphi A 9150	Luxuriant	Colorless	-	-
Enterobacter aerogenes 13048	Luxuriant	Pink-red	-	-
Proteus vulgaris 13315	Luxuriant	Colorless	-	-
S. serotype paratyphi B 8759	Luxuriant	Colorless	-	-
Enterococcus faecalis 29212	None-poor	Colorless-pink	-	-
Shigella flexneri 12022	Fair-good	Colorless	-	-
Pseudomonas aeruginosa 27853	-	-	Luxuriant	Yellow green to blue
S. serotype typhi 6539	Luxuriant	Colorless	-	-
Stenotrophomonas maltophilia 13637	-	-	Inhibited	-

Refer disclaimer Overleaf

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<b>Precautions :</b>	1. In Vitro diagnostic use only.
	2. Read the label before opening the container
<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>	Combination of Cetrimide Agar + MacConkey Agar w/ 0.15% Bile Salts, CV and NaCl recommended for selective isolation and enumeration of Pseudomonas species and differentiation of other enteric pathogens.
<b>Storage:</b>	Store between 2-8°C. Use before expiry date on the label.
<b>Packing:</b>	20/50 disposable biplates.

**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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