

**TECHNICAL SHEET**

<b>BB003</b>	<b>CLED- MacConkey Agar Plate</b>			
<b>Formula: CLED Agar</b>		<b>MacConkey Agar</b>		
<b>Ingredients:</b>	<b>gms/lit</b>	<b>gms/lit</b>		
Peptic digest of animal tissue	4.00	Peptone	1.50	
Casein enzymic hydrolysate	4.00	Tryptone	1.50	
Meat Extract B#	3.00	Gelatin peptone	17.00	
Lactose	10.00	Lactose	10.00	
L-cystine	0.128	Bile Salts	1.50	
Bromo thymol blue	0.02	Sodium chloride	5.00	
Agar	15.00	Crystal violet	0.001	
#- Equivalent to Beef extract		Neutral red	0.03	
		Agar	15.00	
Final pH (at 25°C): :7.3 ± 0.2		7.1±0.2		
<b>Directions:</b>				
1.Label the ready to use plate (BB003). streak the test inoculum (50-100 CFU) aseptically on the plate.				
2.Refer Technical Data of CLED agar (B133) & MacConkey agar w/0.15% Bile Salts, CV and NaCl (B238).				
<b>Principle:</b>				
Biplates has unique combination of two media. CLED agar is recommended for urine bacteria screening. CLED Agar is recommended for isolation, enumeration and identification of urinary pathogens on the basis of lactose fermentation. Organisms capable of fermenting lactose will lower the pH and change the color of the medium from green to yellow. Bromo Thymol Blue is used as a pH indicator. MacConkey Agar 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:		CLED Agar: 7.3 ± 0.2 MacConkey Agar: 7.1±0.2		
Color:		Green coloured medium CLED Agar Red coloured medium with purplish tinge of MacConkey Agar.		
Appearance:		Sterile CLED 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 CLED AGAR	COLOR ON CLED AGAR
Escherichia coli 25922	Luxuriant	Pink-red w/ bile precipitate	Luxuriant	Yellow, opaque center slightly deeper
Staphylococcus aureus 25923	Inhibited	Colorless	Luxuriant	Deep yellow

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S. serotype enteritidis 13076	Luxuriant	Colorless	-	-
Salmonella Typhimurium 14028	Luxuriant	Colorless	-	-
Klebsiella pneumoniae 13883	Luxuriant	Pink-red	-	Yellow to whitish blue
Proteus vulgaris 13315	Luxuriant	Colorless	Luxuriant	yellow blue
S. serotype paratyphi A9150	Luxuriant	Colorless	-	-
S. serotype paratyphi B 8759	Luxuriant	Colorless	-	-
Enterococcus faecalis 29212	None-poor	Colorless -pink	Luxuriant	Slight yellowish or greenish
Shigella flexneri 12022	Fair-good	Colorless	-	-
Enterobacter aerogenes 13048	Luxuriant	Pink-red	-	-
S. serotype typhi 6539	Luxuriant	Colorless	-	Bluish

Refer disclaimer Overleaf

<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 CLED Agar + MacConkey Agar w/ 0.15% Bile Salts, CV and NaCl recommended for isolation and differentiation of urinary pathogens on the basis of lactose fermentation.
<b>Storage:</b>	Store between 20-30°C. Use before expiry date on the label.
<b>Packing:</b>	20/50 disposable plates.

**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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