

**TECHNICAL SHEET**

<b>BB001</b>	<b>Blood- MacConkey Agar Plate</b>			
<b>Formula: Blood Agar</b>		<b>MacConkey Agar</b>		
<b>Ingredients:</b>	<b>gms/lit</b>	<b>gms/lit</b>		
Casein enzymic hydrolysate	14.000	Peptone	1.50	
Peptic digest of animal tissue	4.500	Tryptone	1.50	
Yeast extract	4.500	Gelatin peptone	17.00	
Sodium chloride	5.000	Lactose	10.00	
Agar	12.50	Bile Salts	1.50	
		Sodium chloride	5.00	
		Crystal violet	0.001	
		Neutral red	0.03	
		Agar	15.00	
Final pH (at 25°C): :7.3 ± 0.2		7.1±0.2		
<b>Directions:</b>				
1.Label the ready to use plate (BB001). streak the test inoculum (50-100 CFU) aseptically on the plate.				
2.Refer Technical Data of Sheep Blood agar (B209) & MacConkey agar w/0.15% Bile Salts, CV and NaCl (B238).				
<b>Principle:</b>				
Biplates has unique combination of two media. The hemolytic reaction can be visualized on blood agar plates. On blood agar plates colonies of hemolytic bacteria may be surrounded by clear, colorless zone where the red blood cells have been lysed and the haemoglobin destroyed to a colorless compound. This is beta haemolysis. Other types of bacteria can reduce haemoglobin to methaemoglobin which produces a greenish zone around the colonies and is called alpha hemolysis. Gamma haemolysis is no haemolysis where no change in the medium is observed. 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:	Blood Agar: 7.3 ± 0.2 MacConkey Agar: 7.1± 0.2			
Color:	Red coloured medium of Blood Agar Red coloured medium with purplish tinge of MacConkey Agar.			
Appearance:	Sterile Blood 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 BLOOD AGAR	HAEMOLYSIS
Escherichia coli 25922	Luxuriant	Pink-red w/ bile precipitate	-	-
Staphylococcus aureus 25923	Inhibited	-	Luxuriant	Beta
S. serotype enteritidis 13076	Luxuriant	Colorless	-	-
Streptococcus pyogenes 19615	-	-	Luxuriant	Beta
Streptococcus pneumoniae 6303	-	-	Luxuriant	Alpha
Enterobacter aerogenes 13048	Luxuriant	Pink-red	-	-

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	Proteus vulgaris 13315	Luxuriant	Colorless	-	-
	S. serotype paratyphi A9150	Luxuriant	Colorless	-	-
	S. serotype paratyphi B 8759	Luxuriant	Colorless	-	-
	Enterococcus faecalis 29212	None-poor	Colorless-pink	-	-
	Shigella flexneri 12022	Fair-good	Colorless	-	-
	S. serotype typhi 6539	Luxuriant	Colorless	-	-

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 Blood Agar + MacConkey Agar recommended for isolation and cultivation of fastidious organisms' differentiation of coliforms and 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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