

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B1244</b>	<b>PLATE COUNT AGAR WITH BCP</b>					
<b>Formula</b>						
<b>Ingredients :</b>			<b>gms/lit.</b>			
Peptic digest of animal tissue			5.00			
Yeast extract			2.50			
Dextrose			1.00			
Polysorbate 80 (Tween 80)			1.00			
L-Cysteine			0.10			
Bromo cresol purple			0.04			
Agar			15.00			
Final pH (at 25°C) : 6.8± 0.2						
<b>Directions :</b>						
Suspend 24.64 grams in 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.						
<b>Principle :</b>						
Peptic digest of animal tissue supply nitrogenous and carbonaceous compounds. Yeast extract provides vitamin B complex and dextrose is the fermentable carbohydrate and energy source. Bromocresol purple is a pH indicator. Plate Count Agar can be incubated at 30°C for upto 72 hours for detection of mesophilic organisms. Polysorbate 80 supplies fatty acids required for the metabolism of lactobacilli.						
<b>QC Tests – (I)Dehydrated Medium</b>						
Colour :			Light yellow to light green			
Appearance :			Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>						
pH (post autoclaving/heating) :			6.8 ± 0.2			
Colour (post autoclaving/heating) :			Purple			
Clarity (post autoclaving/heating) :			Clear to slightly opalescent			
<b>(III)Q.C. Test Microbiological</b>						
Cultural characteristics observed after 18 – 48 hrs at 35 - 37°C						
MICROORGANISM (ATCC )			GROWTH			
Lactobacillus acidophilus(4356)			luxuriant			
Lactobacillus lactis(19435)			luxuriant			
Lactobacillus bulgaricus(11842)			luxuriant			
Streptococcus thermophilus(11485)			luxuriant			
<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 enumeration of Lactobacilli in cultured milk, yoghurt and sour creams				
<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>B1244</b>		24.64 g/l	20.29 L	6.8 ± 0.2	NIL	121°C / 15 minutes

**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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