

**TECHNICAL SHEET**

<b>B1559</b>	<b>MODIFIED PLATE COUNT AGAR</b>					
<b>Formula</b>						
<b>Ingredients :</b>			<b>gms/lit.</b>			
Peptone			5.00			
Yeast extract			3.00			
Milk solids (M-protein solids)			1.00			
Agar			15.00			
Final pH (at 25°C):			7.2 ± 0.2			
<b>Directions :</b>						
Suspend 24.0 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. Cool to 45-50°C. Mix well and pour into sterile Petri plates.						
<b>Principle :</b>						
Peptone and yeast extract provide essential nutrients while Milk solids are a source of casein. Dextrose is the carbon and energy source. Proteolytic bacteria will be surrounded by a clear zone, due to the conversion of casein into soluble nitrogenous compounds						
<b>QC Tests - (I) Dehydrated Medium</b>						
Colour :			Cream to yellow			
Appearance :			Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :			7.2 ± 0.2			
Colour (post autoclaving/heating) :			Light yellow			
Clarity (post autoclaving/heating) :			Slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 18 – 48 hrs at 35 – 37°C.						
MICROORGANISM (ATCC )		GROWTH				
Bacillus subtilis (6633)		Good-luxuriant				
Pseudomonas aeruginosa (27853)		Good-luxuriant				
Lactobacillus casei (9595)		Good-luxuriant				
Staphylococcus aureus (25923)		Good-luxuriant				
Serratia marcescens (8100)		Good-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>		For enumeration of bacteria in milk and milk products, rinse waters, ice creams etc				
<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>B1559</b>		24.0 g/l	20.833L	7.2 ± 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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