

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B298</b>	<b>PLATE COUNT AGAR (STANDARD METHODS AGAR)</b>				
<b>Formula</b>					
<b>Ingredients :</b>					
	<b>gms/lit.</b>				
Tryptone	5.00				
Yeast extract	2.50				
Dextrose (Glucose)	1.00				
Agar	15.00				
Final pH (at 25°C) : 7.0 ± 0.2					
<b>Directions :</b>					
Suspend 23.5 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>					
Plate count agar contains tryptone provides nitrogenous and carbonaceous compounds, long chain amino acids, and other essential nutrients. Yeast extract supplies Vitamin B complex. Dextrose is a source of fermentable carbohydrate (energy source). Agar is a solidifying agent.					
<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) :				
	7.0 ± 0.2				
	Colour (post autoclaving/heating) :				
	Light yellow				
	Clarity (post autoclaving/heating) :				
	Clear to slightly opalescent				
<b>(III) Q.C. Test Microbiological</b>					
	Cultural characteristics observed after 18 – 24 hrs at 35 – 37°C.				
	MICROORGANISM (ATCC )		GROWTH		
	Bacillus subtilis (6633)		Luxuriant		
	Escherichia coli (25922)		Luxuriant		
	Lactobacillus casei (9595 )		Luxuriant		
	Staphylococcus aureus (25923)		Luxuriant		
	Enterococcus faecalis (29212)		Luxuriant		
	Streptococcus pyogenes (19615)		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 determination of plate counts of microorganisms in foods, water and wastewater & also from clinical samples.				
<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>B298</b>	23.5g/l	21.276L	7.0 ± 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 BIOMARK LABORATORIES publications.

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