

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B298	PLATE COUNT AGAR (STANDARD METHODS AGAR)					
Formula						
Ingredients :		gms/lit.				
Tryptone		5.00				
Yeast extract		2.50				
Dextrose(Glucose)		1.00				
Agar		15.00				
Final pH (at 25°C) : 7.0 ± 0.2						
Directions :						
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.						
Principle :						
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.						
QC Tests – (I) Dehydrated Medium						
Colour :		Cream to light yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.0 ± 0.2				
Colour (post autoclaving/heating) :		Cream to light yellow				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III) Q.C. Test Microbiological						
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				
Precautions :		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
Limitations :		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
Use :		For determination of plate counts of microorganisms in foods, water and wastewater.				
Storage :		Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B298		23.5g/l	21.276L	7.0 ± 0.2	NIL	121°C / 15 minutes