

TECHNICAL SHEET

B1816	Plate Count Agar with 1.2% agar				
Formula					
Ingredients :	gms/lit.				
Casein enzymic hydrolysate	5.00				
Yeast extract	2.50				
Dextrose (Glucose)	1.00				
Agar	12.00				
Final pH (at 25°C) :	7.0 ± 0.2				
Directions :	Suspend 20.5 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.				
Principle :	Casein enzymic hydrolysate provides amino acids and other complex nitrogenous substances. Yeast extracts supplies Vitamin B complex. Dextrose serves as carbon source. Agar acts as a solidifying agent. This medium can be used where gel of 1.2% concentration is desired.				
QC Tests – (I)Dehydrated Medium					
	Colour :	Cream to yellow			
	Appearance :	Homogeneous Free Flowing powder			
(II)Rehydrated medium					
	pH (post autoclaving/heating) :	7.0 ± 0.2			
	Colour (post autoclaving/heating) :	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			
	Pseudomonas aeruginosa (27853)	Luxuriant			
	Staphylococcus aureus (25923)	Luxuriant			
	Enterococcus faecalis (29212)	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 :	In ISO 4833:1991, Plate Count Agar w/1.2% agar is used for the determination of plate count of microorganisms in foods and dairy product.				
Storage :	Dehydrated medium- below 30 ° C Prepared mediums– Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1816	20.5/1	24.390 L	7.0 ± 0.2	NIL	121 ⁰ C / 15 minutes

Disclaimer:

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