

TECHNICAL SHEET

B818	WL DIFFERENTIAL AGAR	
Formula		
Ingredients :	gms/lit.	
Casein enzymic hydrolysate	5.00	
Yeast extract	4.00	
Dextrose	50.00	
Monopotassium phosphate	0.55	
Potassium chloride	0.425	
Calcium chloride	0.125	
Magnesium sulphate	0.125	
Ferric chloride	0.0025	
Manganese sulphate	0.0025	
Bromo cresol green	0.022	
*Actidione (Cycloheximide)	0.004	
Agar	20.00	
Final pH (at 25°C) : 5.5 ± 0.2		
Directions :		
Suspend 80.26 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. If desired, to obtain a pH of 6.5, add 1% solution of sodium bicarbonate before sterilization.		
Principle :		
Yeast extract, casein enzymic hydrolysate, dextrose and numerous salts in the medium provide growth requirements for microorganism. Bromo cresol green is the pH indicator. Cycloheximide suppresses growth of yeasts and molds in brewing samples, permitting the detection and enumeration of bacteria that may be present in small numbers. While determining microbial counts using these media, temperature and time of incubation will vary depending on the nature of material under test. Temperatures of 25°C are employed for brewing materials while 30°C are employed for baker's yeast and alcohol fermentation mash analyses.		
QC Tests – (I) Dehydrated Medium		
Colour :	Greenish yellow	
Appearance :	Homogeneous Free Flowing powder	
(II) Rehydrated medium		
pH (post autoclaving/heating) :	5.5 ± 0.2	
Colour (post autoclaving/heating) :	Bluish green	
Clarity (post autoclaving/heating) :	Very slightly opalescent	
(III) Q.C. Test Microbiological		
Cultural characteristics observed after an incubation for 40-48 hours at 35-37°C for bacteria and at 30 ± 2°C for yeasts.		
MICROORGANISM (ATCC)	GROWTH	
Escherichia coli (25922)	Luxuriant	
Lactobacillus fermentum (9338)	Good	
Proteus mirabilis (25933)	Good	
Saccharomyces cerevisiae (9763)	Inhibited	
Saccharomyces uvarum (9080)	Inhibited	

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Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
	3. Cycloheximide is very toxic. Avoid skin contact or aerosol formation and inhalation.				
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 selective isolation and enumeration of bacteria encountered in breweries and industrial fermentations.				
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
B818	80.26 g/l	6.22 L	5.5 ± 0.2	Nil	121°C/15 min.