

B354	WL NUTRIENT BROTH		
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	
Final pH (at 25°C): 5.5 ± 0.2			
Directions:			
Suspend 60.25 grams in 1000 ml purified / distilled water. Heat if necessary, to dissolve the medium completely. Dispense in tubes or flasks or as desired Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. If desired to obtain a pH of 6.5, add 1% solution of sodium bicarbonate before sterilization.			
Principle:			
Yeast extract which serves as a source of trace elements, vitamins and amino acids. Casein enzymic hydrolysate is used as a source of nitrogen, amino acids and carbon. Dextrose is the source of carbohydrate. Buffering of the medium is done by monopotassium phosphate. Potassium chloride, calcium chloride and ferric chloride are essential ions that help to maintain the osmotic balance. Magnesium sulphate and manganese sulphate are sources of divalent cations. Bromo cresol green is a pH indicator. 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 :		Light yellow to light green	
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 in tubes containing inverted Durham's tubes after an incubation at 35-37°C for 40-48 hours for bacteria and at 30-32°C upto 5 days for yeast.			
MICROORGANISM (ATCC)	GROWTH	Acid	Gas
Saccharomyces cerevisiae (9763)	Good	Positive reaction, yellow colour	Positive
Escherichia coli (25922)	Fair to good	positive reaction, yellow colour	Positive
Lactobacillus fermentum (9338)	Fair to good	positive reaction, yellow colour	Slightly positive

Refer disclaimer Overleaf

TECHNICAL SHEET

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 cultivation and isolation of microorganisms encountered in brewing and industrial fermentation processes.				
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
B354	60.25 g/l	8.30 L	5.5 ± 0.2	Nil	121°C/15 min.

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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