

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1187	LACTOBACILLI HETEROFERM SCREEN BROTH (MRS BROTH, MODIFIED)				
Formula					
Ingredients :		gms/lit.			
Dextrose		20.00			
Proteose peptone		10.00			
Yeast extract		5.00			
Sodium acetate		5.00			
2-Phenylethyl alcohol		3.00			
Ammonium citrate		2.00			
Dipotassium phosphate		2.00			
Magnesium sulphate		0.10			
Manganese sulphate		0.05			
Bromocresol green		0.04			
Cycloheximide		0.004			
Final pH (at 25°C) : 4.3 ± 0.2					
Directions :					
Suspend 47.2 grams in 1000 ml distilled water containing 1 ml polysorbate 80. Mix thoroughly and dispense in tubes containing inverted Durhams tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If necessary, adjust the pH with glacial acetic acid after sterilization.					
Principle :					
Proteose peptone and dextrose supply nitrogen, carbon and other elements essential for the growth of Lactobacilli. Polysorbate 80 a mixture of oleic esters, supplies fatty acids required by Lactobacilli. Ammonium citrate, sodium acetate, 2-phenylethyl alcohol and cycloheximide inhibit gram-negative organisms, molds and certain gram-positive bacteria. Certain yeasts are also suppressed because of presence of cycloheximide. Bromocresol green is the pH indicator, which under acidic conditions, changes colour from green to yellow.					
QC Tests – (I) Dehydrated Medium					
Colour :		Light yellow to bluish grey			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		4.3 ± 0.2			
Colour (post autoclaving/heating) :		Green			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent solution in tube			
(III) Q.C. Test Microbiological					
Cultural characteristics observed in presence of 5-10% Carbon dioxide (CO ₂) after an incubation at 35-37°C for upto 3 days.					
MICROORGANISM (ATCC)		GROWTH			
Lactobacillus casei (9595)		Luxuriant			
Lactobacillus acidophilus (4356)		Luxuriant			
Lactobacillus fermentum (9338)		Luxuriant			
Lactobacillus plantarum (8014)		Luxuriant			
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 :	It is recommended for the isolation and cultivation of Lactobacillus species from salad dressings				
Storage :	Dehydrated medium and prepared medium – Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1187	47.2 g/l	10.593 lit	4.3 ± 0.2	polysorbate 80	121°C/15 min

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