

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B600</b>	<b>MRS BROTH MODIFIED (LACTOBACILLI HETEROFERM SCREEN BROTH)</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
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			
Bromo cresol green		0.04			
Cycloheximide		0.004			
Final pH (at 25°C) :		4.3 ± 0.2			
<b>Directions :</b>					
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.					
Warning: Cycloheximide is very toxic. Avoid skin contact or aerosol formation and inhalation.					
<b>Principle :</b>					
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 suppressed because of presence of Cycloheximide.					
<b>QC Tests – (I) Dehydrated Medium</b>					
Colour :		Light yellow to bluish grey			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		4.3 ± 0.2			
Colour (post autoclaving/heating) :		Green			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after upto 3 days at 35-37°C with 5 – 10% CO <sub>2</sub> .					
MICROORGANISM (ATCC )		GROWTH			
Lactobacillus plantarum (8014 )		Luxuriant			
Lactobacillus fermentum (9338 )		Luxuriant			
Lactobacillus acidophilus (4356 )		Luxuriant			
Lactobacillus casei (9595)		Luxuriant			
<b>Precautions :</b>		1. For Laboratory Use.			
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.			
<b>Limitations :</b>		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.			
<b>Use :</b>		For the isolation and cultivation of Lactobacillus species from salad dressings.			
<b>Storage :</b>		Dehydrated medium and prepared medium – Between 2 to 8°C.			
<b>Packing :</b>		500 gm. bottle			
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement
<b>B600</b>		47.2g/l	10.593L	4.3 ± 0.2	Polysorbate 80
					121°C / 15 minutes