

TECHNICAL SHEET

B1195	LACTOBACILLI HETEROFERM SCREEN AGAR(MRS AGAR, 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				
Agar	15.00				
Final pH (at 25°C) : 5.5 ± 0.2					
Directions :					
Suspend 62.2 grams in 1000 ml distilled water containing 1 ml polysorbate 80. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If necessary, adjust the pH with glacial acetic acid after sterilization. Mix well and pour into sterile Petri plates.					
Warning: Cycloheximide is very toxic. Avoid skin contact or aerosol formation and inhalation.					
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) :	5.5 ± 0.2				
Colour (post autoclaving/heating) :	Green				
Clarity (post autoclaving/heating) :	Clear to slightly opalescent gel				
(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
B1195	62.2 g/l	8.038 lit	5.5 ± 0.2	polysorbate 80	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 BIOMARKLABORATORIES publications.

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