

**TECHNICAL SHEET**

<b>B1497</b>	<b>MRS AGAR (LACTOBACILLUS MRS AGAR)</b>	
<b>Formula</b>		
<b>Ingredients :</b>	<b>gms/lit.</b>	
Peptone	10.00	
Meat extract B#	8.00	
Yeast extract	5.00	
Ammonium citrate	2.00	
Sodium acetate	5.00	
Magnesium sulphate, heptahydrate	0.20	
Manganese sulphate, tetrahydrate	0.05	
Dipotassium phosphate	2.00	
Glucose anhydrous	20.00	
Polysorbate 80(Tween 80)	1.00	
Agar	12.00	
# Equivalent to Beef extract		
Final pH (at 25°C) : 5.7 ± 0.2		
<b>Directions :</b>		
Suspend 65.13 grams (the equivalent weight of dehydrated medium per litre) 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. Cool to 45-50°C. Mix well and pour into sterile Petri plates.		
<b>Principle :</b>		
Lactobacillus MRS Agar contains Peptone, Meat extract B, Yeast extract. These ingredients supply nitrogen, carbon and other elements necessary for growth. Polysorbate 80, Acetate, Magnesium and Manganese sulphate provide growth factors for culturing a variety of lactobacilli. The above ingredients may inhibit the growth of some organisms other than lactobacilli.		
<b>QC Tests – (I)Dehydrated Medium</b>		
Colour :	Cream to light yellow	
Appearance :	Homogeneous free flowing powder	
<b>(II)Rehydrated medium</b>		
pH (post autoclaving/heating) :	5.7 ± 0.2	
Colour (post autoclaving/heating) :	Medium to dark amber	
Clarity (post autoclaving/heating) :	Clear to slightly opalescent	
<b>(III) Q.C. Test Microbiological</b>		
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours (longer if necessary) (with 5% CO <sub>2</sub> )		
MICROORGANISM (ATCC )	GROWTH	
Lactobacillus acidophilus (19992)	Luxuriant	
Lactobacillus fermentum (9338 )	Luxuriant	
Lactobacillus plantarum (8014 )	Luxuriant	
Lactococcus lactis (19435)	None-poor	
Lactobacillus casei (9595)	Luxuriant	
Lactococcus sakei (15521)	Luxuriant	
Pediococcus damnosus (29358)	Luxuriant	
Pediococcus pentosaceus (33316)	Luxuriant	
Bifidobacterium bifidum* (11863)	Luxuriant	
Escherichia coli (25922)	Inhibition	
Bacillus cereus (11778)	Inhibition	
Key *- Growth under anaerobic conditions for 72 hours.		
<b>Precautions :</b>	1. For Laboratory Use.	
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.	

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<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.				
	2. Organisms other than lactobacilli may grow in these media. Isolates must be confirmed as lactobacilli by appropriate biochemical testing.				
<b>Use:</b>	For the isolation and enumeration of lactobacilli from meat and meat products. The composition and performance criteria of this medium are as per the specifications laid down in ISO 1995, Draft ISO/DIS 13720				
<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	Sterilization
<b>B1497</b>	65.13g/l	7.676 L	5.7 ± 0.2	NIL	121°C / 15 minutes

**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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