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B1497 MRS AGAR (LACTO	BACILLUS MRS AGAR)						
Formula							
Ingredients :	gms/lit.						
Peptone	10.00						
Beef extract	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						
Final pH (at 25°C) : 5.7 <u>+</u> 0.2							
Directions :							
	weight of dehydrated medium per litre) in 1000 ml distilled water.						
	completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for						
15 minutes. Cool to 45-50°C. Mix well a	and pour into sterile Petri plates.						
Principle :							
	ne, Beef extract, Yeast extract. These ingredients supply nitrogen,						
carbon and other elements necessary	for growth. Polysorbate 80, Acetate, Magnesium and Manganese						
sulphate provide growth factors for cu	lturing a variety of lactobacilli. The above ingredients may inhibit						
the growth of some organisms other th	an lactobacilli.						
QC Tests – (I)Dehydrated Medium							
Colour :	Cream to light yellow						
Appearance :	Homogeneous free flowing powder						
(II)Rehydrated medium							
pH (post autoclaving/heating) :	5.7 ± 0.2						
Colour (post autoclaving/heating) :	Medium to dark amber						
Clarity (post autoclaving/heating) :	Clear to slightly opalescent						
(III) Q.C. Test Microbiological							
	er an incubation at 35-37°C for 18-24 hours (longer if neccesary)						
(with 5% CO2)							
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.						
2. Follow proper, established laboratory procedures in handling and disposing of							
	infectious materials.						
	al 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.							
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	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						
Storage :	Dehydrated medium and prepared medium – Between 2 to 8°C.						
Packing :	500 gm. bottle						
Product profile:		Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization		
B1497	65.13g/l	7.676 L	5.7 ± 0.2	NIL	121ºC / 15 minutes		