

**TECHNICAL SHEET**

<b>B219</b>	<b>LACTOBACILLUS MRS BROTH (MRS BROTH)</b>	
<b>Formula</b>		
<b>Ingredients:</b>	<b>gms/lit.</b>	
Proteose peptone	10.00	
Meat Extract B#	10.00	
Yeast extract	5.00	
Dextrose	20.00	
Polysorbate 80	1.00	
Ammonium citrate	2.00	
Sodium acetate	5.00	
Magnesium sulphate	0.10	
Manganese sulphate	0.05	
Disodium phosphate	2.00	
#- Equivalent to Beef extract		
Final pH (at 25°C):6.5 + 0.2		
<b>Directions:</b>		
Suspend 55.15 grams in 1000 ml purified/distilled water. Heat, if necessary, to dissolve the medium completely. Distribute in tubes, bottles or flasks as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.		
Note: Powder has tendency to form soft lumps, which can be easily broken down to powder form		
<b>Principle:</b>		
Proteose peptone and Meat Extract B supply nitrogenous and carbonaceous compounds. Yeast extract provides vitamin B complex and dextrose is the fermentable carbohydrate and energy source. Polysorbate 80 supplies fatty acids required for the metabolism of Lactobacilli. Sodium acetate and ammonium citrate inhibit Streptococci, molds and many other microorganisms.		
<b>Type of specimen :</b> Clinical samples - faeces, swab from oral cavity; Food and dairy samples.		
<b>Specimen Collection and Handling:</b>		
For clinical samples follow appropriate techniques for handling specimens as per established and current guidelines of clinical microbiology.		
For food and dairy samples, follow appropriate techniques for sample collection and processing as per standard and current guidelines of food and dairy microbiology.		
After use, contaminated materials must be sterilized by autoclaving before discarding.		
<b>QC Tests - (I) Dehydrated Medium</b>		
Colour:	Cream to yellow	
Appearance:	Homogeneous Free Flowing powder	
<b>(II) Rehydrated medium</b>		
pH (post autoclaving/heating):	6.5 ± 0.2	
Colour (post autoclaving/heating):	Light 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 or longer. (With 5% CO <sub>2</sub> )		
MICROORGANISM (ATCC)	GROWTH	
Lactobacillus fermentum (9338)	Luxuriant	
Lactobacillus leichmannii (7830)	Luxuriant	
Lactobacillus plantarum (8014)	Luxuriant	
Lactobacillus casei (9595)	Luxuriant	
Lactobacillus saki ATCC 15521 (00015*)	Luxuriant	
Lactobacillus lactis ATCC 19435 (00016*)	Luxuriant	
Pediococcus pentosaceus ATCC 33316 (00158*)	Luxuriant	
Key: * Corresponding WDCM numbers.		

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<b>Warning &amp;Precautions :</b>	1. For In vitro diagnostic Use.By professionals only.				
	2. Read the label carefully before opening the container.Wear PPE wares.Follow established good microbiology laboratory practices while handling specimens and cultures and take standard precautions for handling clinical specimens.				
	3. For safety guidelines refer individual safety data sheet.				
<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.Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.				
	3.Further biochemical and serological tests must be carried out for complete identification.				
	4.Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition Seal the container tightly after use. Product performance is best if used within stated expiry period.				
<b>Use:</b>	For cultivation of all Lactobacilli from clinical and non-clinical samples.				
<b>Storage:</b>	Dehydrated medium andprepared medium – Between 2 to 8°C.				
<b>Disposal:</b>	Ensure safe disposal by autoclaving/or incineration of used or usable preparation of this product. Follow established laboratory procedures while disposing all infectious material and those coming in contact must be decontaminated and disposed off with existing laboratory technics.				
<b>Packing:</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
	<b>B219</b>	55.15g/l	9.066 lit	6.5 ± 0.2	Nil

**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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