

**TECHNICAL SHEET**

<b>B377</b>	<b>ROGOSA SL BROTH</b>	
<b>Formula</b>		
<b>Ingredients :</b>		<b>gms/lit.</b>
Casein enzymic hydrolysate		10.00
Yeast extract		5.00
Dextrose		10.00
Arabinose		5.00
Saccharose		5.00
Sodium acetate		15.00
Ammonium citrate		2.00
Monopotassium phosphate		6.00
Magnesium sulphate		0.57
Manganese sulphate		0.12
Ferrous sulphate		0.03
Polysorbate 80		1.00
Final pH (at 25°C) : 5.4 ± 0.2		
<b>Directions :</b>		
Suspend 60 gms in 1000ml. distilled water. Boil to dissolve the medium completely. Add 1.32 ml glacial acetic acid. Mix thoroughly, distribute into culture tubes. Heat to 90-100°C for 2-3 minutes. Cool to 45°C for direct inoculation. DO NOT AUTOCLAVE.		
<b>Principle :</b>		
Tryptone and Casein acid hydrolysate provides carbon and nitrogen. Yeast Extract is a source of trace elements, vitamins and amino acids. Dextrose, Arabinose and Saccharose are carbohydrate sources that provide carbon. Sodium Acetate and Ammonium Citrate inhibit streptococci, molds and other oral microbial flora and restrict swarming. Monopotassium phosphate provides buffering capability. Magnesium Sulfate, Manganese sulfate and Ferrous Sulfate are sources of inorganic ions. Sorbitan Monooleate (Polysorbate 80) acts as a surfactant.		
<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) :		5.4 ± 0.2
Colour (post autoclaving/heating) :		Light yellow to light amber
Clarity (post autoclaving/heating) :		Slightly opalescent
<b>(III) Q.C. Test Microbiological</b>		
Cultural characteristics observed after 40 – 48 hrs.at 35 - 37°C, in 5% CO <sub>2</sub> and 95% H <sub>2</sub> .		
MICROORGANISM (ATCC )		GROWTH
Lactobacillus casei (9595 )		Good - luxuriant
Lactobacillus fermentum (9338 )		Good - luxuriant
Lactobacillus leichmanni (4797 )		Good - luxuriant
Lactobacillus plantarum (8014 )		Good - luxuriant
Staphylococcus aureus (25923)		Inhibited
<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. The salt in the formulation makes the media not suitable for isolation of dairy lactobacilli e.g. <i>L.lactis</i> , <i>L.bulgaricus</i> and <i>L.helveticus</i> .				
<b>Use :</b>	For selective cultivation of all Lactobacilli including oral and faecal Lactobacilli.				
<b>Storage :</b>	Dehydrated medium- Between 2- 8°C Prepared medium –Use freshly prepared medium.				
<b>Packing :</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B377</b>	60 g/l	8.33L	5.4 ± 0.2	Nil	DO NOT AUTOCLAVE