B379	**ROGOSA SL AGAR**

Formula	
Ingredients :	**gms/lit.**
Tryptose	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
Agar	15.00

Final pH (at 25°C) : 5.4 ± 0.2

Directions :

Suspend 74.72 gms. in 1000ml. distilled water. Boil to dissolve the medium completely. Add 1.32 ml glacial acetic acid. Mix thoroughly, distribute into culture tubes or flasks. Heat to 90-100°C for 2-3 minutes. Cool to 45°C for direct inoculation. DO NOT AUTOCLAVE.

Principle :

Tryptose and yeast extract provide nitrogenous compounds, sulphur, trace elements and vitamin B complex, essential for growth of Lactobacilli. Dextrose, arabinose and saccharose are the fermentable carbohydrates. Polysorbate 80 is the source of fatty acids. Ammonium citrate and Sodium acetate inhibit moulds, Streptococci and many other organisms. Monopotassium phosphate provides buffering capability. Magnesium sulphate, manganese sulphate and ferrous sulphate are sources of inorganic ions. Low pH of the medium and addition of acetic acid makes the medium selective for Lactobacilli inhibiting other bacterial flora. Agar is a solidifying agent.

QC Tests – (I)Dehydrated Medium		
	Colour :	Cream to yellow
	Appearance :	homogeneous soft lumps which can be easily broken down to powder form.
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	5.4 ± 0.2
	Colour (post autoclaving/heating) :	Light yellow
	Clarity (post autoclaving/heating) :	Opalescent
(III)Q.C. Test Microbiological		
	Cultural characteristics observed after 40 – 48 hrs.at 35 - 37°C, in presence of 5% CO_2 and 95% H_2.	
	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

Precautions :	1. For Laboratory Use.
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.

Refer disclaimer overleaf

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Limitations:	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. L.lactis, L.bulgaricus and L.helveticus.				
Use:	Recommended for selective cultivation of oral and faecal Lactobacilli				
Storage:	Dehydrated medium- Between 2- 8°C Prepared medium –Use freshly prepared medium.				
Packing:	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B379	74.72 g/l	6.69 L	5.4 $\pm$ 0.2	1.32 ml glacial acetic acid	DO NOT AUTOCLAVE