

TECHNICAL SHEET

B378	ROGOSA SL AGAR W/ 0.15% OXGALL	
Formula		
Ingredients :	gms/lit.	
Casein enzymic hydrolysate	10.00	
Yeast extract	5.00	
Monopotassium phosphate	6.00	
Ammonium citrate	2.00	
Dextrose	20.00	
Polysorbate 80	1.00	
Sodium acetate	25.00	
Magnesium sulphate	0.575	
Manganese sulphate	0.12	
Ferrous sulphate	0.034	
Oxgall	1.50	
Agar	15.00	
Final pH (at 25°C) : 5.4 ± 0.2		
Directions :		
Suspend 8.62 grams in 100 ml distilled water. Add 0.132 ml glacial acetic acid. Heat to boiling to dissolve completely. Medium can be used without autoclaving. If storage is necessary, the medium can be autoclaved at 10 lbs pressure (115°C) for 15 minutes. Incubation is done in CO2 enriched atmosphere.		
Principle :		
The high acetate concentration and low pH suppresses growth of many other strains of Lactic acid bacteria. Dextrose serves as energy source whereas Polysorbate 80 as source of fatty acids. Ammonium citrate and Sodium acetate inhibits molds, Streptococci and many other organisms. Casein enzymic hydrolysate and Yeast extract provides the nitrogenous compounds. Magnesium sulphate, Manganese sulphate, Ferrous sulphate serves a trace elements for growth of Lactobacilli. Incorporation of 0.15% Oxgall selectively allows the growth of bile tolerant Lactobacilli.		
QC Tests – (I) Dehydrated Medium		
Colour :	yellow	
Appearance :	Homogeneous Free Flowing powder	
(II) Rehydrated medium		
pH (post autoclaving/heating) :	5.4 ± 0.2	
Colour (post autoclaving/heating) :	Light yellow	
Clarity (post autoclaving/heating) :	Slightly opalescent	
(III) Q.C. Test Microbiological		
Cultural characteristics observed after 40 – 48 hrs.at 35 - 37°C in presence of Carbon dioxide		
MICROORGANISM (ATCC)	GROWTH	
Escherichia coli (25922)	inhibited	
Lactobacillus acidophilus (4356)	luxuriant	
Lactobacillus plantarum (8014)	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 :	It is recommended for selective isolation of bile tolerant 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
	B378	86.20 g/l	5.80 L	5.4 ± 0.2	Glacial acetic acid

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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