



Rogosa SL Agar (w/ 0.15% Oxgall)

M958

Rogosa SL Agar (w/ 0.15% Oxgall) is recommended for selective isolation of bile tolerant lactobacilli.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	10.000
Yeast extract	5.000
Monopotassium phosphate	6.000
Ammonium citrate	2.000
Dextrose	20.000
Polysorbate 80	1.000
Sodium acetate	25.000
Magnesium sulphate	0.575
Manganese sulphate	0.120
Ferrous sulphate	0.034
Oxgall	1.500
Agar	15.000
Final pH (at 25°C)	5.4±0.2

**Formula adjusted, standardized to suit performance parameters

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 And Interpretation

Rogosa SL Agar with 0.15% Oxgall is recommended for selective enumeration of bile tolerant fecal lactobacilli. Lactobacilli grow poorly on ordinary culture media and require special nutrients. It is a selective medium for isolation and enumeration of lactobacilli (1). The high acetate concentration and low pH suppresses growth of many other strains of Lactic acid bacteria (2). Dextrose serves as energy source whereas Polysorbate 80 as source of fatty acids. Ammonium citrate and Sodium acetate inhibits moulds, 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.

Quality Control

Appearance

Yellow coloured homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light yellow coloured slightly opalescent gel forms in petri plates.

Reaction

Reaction of 8.62% w/v aqueous solution at 25°C. pH : 5.4±0.2

pH

5.20-5.60

Cultural Response

Cultural characteristics observed in presence of Carbon dioxide (Carbon dioxide (CO₂) after an incubation at 35 - 37°C after 48 hours .

Cultural Response

Organism	Growth
Cultural Response	
<i>Escherichia coli</i> ATCC 25922	inhibited
<i>Lactobacillus acidophilus</i> ATCC 4356	luxuriant
<i>Lactobacillus plantarum</i> ATCC 8014	luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	inhibited

Storage and Shelf Life

Store below 8°C and use freshly prepared medium. Use before expiry date on the label.

Reference

1. Rogosa M, Mitchell J.A. and Wiseman R.F, (1951), J. Bact. 62, 132 133.
2. Mac Faddin J.F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol.I, Williams and Wilkins, Baltimore.

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