Rogosa SL Agar w/0.15% Bile

M958

Intended Use:

Recommended for selective isolation of bile tolerant Lactobacilli.

Composition**

Ingredients	g / L
Tryptone	10.000
Yeast extract	5.000
Potassium dihydrogen phosphate	6.000
Ammonium citrate	2.000
Dextrose (Glucose)	20.000
Polysorbate 80 (Tween 80)	1.000
Sodium acetate	25.000
Magnesium sulphate	0.575
Manganese sulphate	0.120
Ferrous sulphate	0.034
Bile #	1.500
Agar	15.000
Final pH (at 25°C)	5.4±0.2

**Formula adjusted, standardized to suit performance parameters
Equivalent to Ox gall

Directions

Suspend 8.62 grams in 100 ml purified/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 CO_2 enriched atmosphere.

Principle And Interpretation

Rogosa SL Agar w/0.15% Bile 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 concentraion 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. Tryptone 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% bile selectively allows the growth of bile tolerant Lactobacilli.

Type of specimen

Clinical samples - Saliva, faeces

Specimen Collection and Handling:

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (3,4).
After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

In Vitro diagnostic Use only. For professional use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. High acetate concentration and acidic pH suppress many strains of other lactic acid bacteria.
2. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.
3.Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's unique requirement.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality Control

Appearance

Cream to 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 (CO_2) after an incubation at 35 - 37°C after 48 hours

Organism	Inoculum (CFU)	Growth	Recovery
Escherichia coli ATCC 25922 (00013*)	>=10^4	inhibited	0%
Lactobacillus acidophilus ATCC 4356 (00098*)	50-100	luxuriant	>=50%
^*Lactiplantibacillus plantarum* ATCC 8014	50-100	luxuriant	>=50%
Staphylococcus aureus subsp. *aureus* ATCC 25923 (00034*)	>=10^4	inhibited	0%

Key : *Corresponding WDCM numbers. ^ Formerly known as *Lactobacillus plantarum*

Store dehydrated and the prepared medium at 2-8°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. 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.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (3,4).

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.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
4. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

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IVD ***In vitro* diagnostic medical device**

2°C 8°C **Storage temperature**

EC REP

CEpartner4U, Esdoornlaan 13,
3951DB Maarn, NL
www.cepartner4u.eu

CE **CE Marking**

Do not use if package is damaged

Disclaimer :

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