



Cyrusbioscience

Rogosa Agar

Product No.: 3037

Storage: Store at 4°C

Description:

Rogosa Agar, a modification of the medium described by Rogosa et al., is a selective medium for the isolation and enumeration of *lactobacilli*. The medium has given excellent results when used in quantitative and qualitative studies of lactobacilli in faeces, saliva and mouth rinses, and in dairy products. It is an effective, selective medium for *lactobacilli* but the high acetate concentration and low pH suppresses many strains of other lactic acid bacteria.

Procedure:

Suspend 75.7 grams powder and 1ml Tween 80 in 1 liter distilled water. Heat to boiling to dissolve the medium completely. Adjust the pH to about 5.5 at about 50°C with 1.32ml acetic acid and mix thoroughly. Heat to 95°C for 3 mins. **DO NOT AUTOCLAVE**. Distribute into sterile Petri dishes.

Note: If the pH of the medium is adjusted to 6.2 without adding acetic acid then the selectivity of the medium is altered to include the whole group of lactic acid bacteria

Technique:

For the isolation of *lactobacilli*, recommends that Rogosa Agar plates should be incubated for 3 days at 35°C or for 5 days at 30°C. *Lactobacilli* prefer a microaerophilic atmosphere, however, if a suitable container is not available, overlay the inoculated plate with a second layer of Rogosa Agar, before incubation.

Thermophilic lactic acid bacteria are incubated at 42°C for 48 hours and suspected psychrotrophic organisms can be incubated at 30°C for 2 days and at 22°C for a further day. *Leuconostocs* from meat are incubated at 25°C for 3 days.

Composition : (In 75.7g Rogosa Agar/1L H₂O)

Peptone: 10 g/lit.

Yeast extract: 5 g/lit.

D(+)-Glucose: 20 g/lit.

Potassium dihydrogen phosphate: 6 g/lit.

Ammonium citrate: 2 g/lit.

Sodium acetate: 17 g/lit.

Magnesium sulfate: 0.575 g/lit.

Ferrous sulfate: 0.034 g/lit.

Manganous sulfate: 0.12 g/lit.

Agar: 15.0: g/lit.

Tween80: 1ml/lit.