

## ROGOSA BIOS AGAR

Selective medium for the isolation and enumeration of lactobacilli

### TYPICAL FORMULA (g/l)

Peptozimatic	2.00
Tryptone	4.00
Yeast Extract	9.00
Glucose	10.00
Arabinose	5.00
Sucrose	5.00
Sodium Acetate	15.00
Ammonium Citrate	2.000
Potassium Dihydrogen Phosphate	6.000
Magnesium Sulphate	0.57
Manganous Sulphate	0.12
Ferrous Sulphate	0.03
Agar	15.00

## ROGOSA BIOS BROTH

Selective liquid medium for the cultivation of lactobacilli

### TYPICAL FORMULA (g/l)

Peptozimatic	2.00
Tryptone	4.00
Yeast Extract	9.00
Glucose	10.00
Arabinose	5.00
Sucrose	5.00
Sodium Acetate	15.00
Ammonium Citrate	2.000
Potassium Dihydrogen Phosphate	6.000
Magnesium Sulphate	0.57
Manganous Sulphate	0.12
Ferrous Sulphate	0.03

### DIRECTIONS

Suspend 73.7g of Rogosa Bios Agar or 58.7g of Rogosa Bios Broth in 1000ml of cold distilled water. Add 1ml of Tween 80 and 1.32ml of glacial acetic acid. Heat to boiling, boil for 2-3 minutes and distribute into sterile containers. The two media do not require sterilisation.

Final pH 5.4 ± 0.2

### DESCRIPTION

Rogosa Bios Agar and Broth, prepared according to a modification of the formula of Rogosa, Mitchell and Wiseman, are selective media for the isolation and enumeration of lactobacilli from specimens of faecal, vaginal and oral origin.

### TECHNIQUE

Inoculated Rogosa plates or tubes should be incubated for 3 days at 35°C or for 5 days at 30°C. It is preferable to incubate in an atmosphere containing 95% of hydrogen and 5% carbon dioxide, this prevents evaporation, provides micro-aerophilic conditions favoured by lactobacilli.

If lactic acid bacteria other than mesophilic are to be detected, incubate the plates at 42°C for 48hrs (thermophilic lactobacilli) or at 25°C for 5 days (psicrophilic lactobacilli) or at 30°C for 48hrs + 22°C for 48hrs (mesophilic+psicrophilic lactobacilli).

After incubation all well grown colonies may be considered as lactic acid bacteria (0.5-2.5 mm greyish-white, flat or raised, smooth, rough or intermediate colonies). Enterococci and pediococci show a reduced growth rate.

**USER QUALITY ASSURANCE** (37°C-48HRS)

Productivity control

*L.fermentum* ATCC 9338*L.sake* ATCC 15521**STORAGE**

Dehydrated medium: 2-8°C

User prepared plates: 7 days at 2-8°C

User prepared tubes: 1 month at 2-8°C

**REFERENCE**

- Rogosa, M., Mitchell, J.A. & Wiseman R.F. (1971) J. Bact. **62**, 132

**PACKAGING**

<b>4019852</b>	<b>Rogosa Bios Agar</b>	<b>500g (6.8 l)</b>
<b>4019902</b>	<b>Rogosa Bios Broth</b>	<b>500g (8.5 l)</b>
<b>541985</b>	<b>Rogosa Bios Agar</b>	<b>20 ready to use plates</b>