



Enriched Thioglycollate Broth

M738

Intended Use:

Recommended for isolation, cultivation and identification of a wide variety of obligate anaerobic bacteria.

Composition**

Ingredients	Gms / Litre
Tryptone	17.000
Soya peptone	3.000
Dextrose (Glucose)	6.000
Sodium chloride	2.500
Sodium thioglycollate	0.500
L-Cystine	0.250
Sodium sulphite	0.100
Hemin	0.005
Vitamin K1	0.0001
Agar	0.700
Sodium bicarbonate	1.000
Final pH (at 25°C)	7.0±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 31.06 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 118-121°C for 15 minutes (12-15 lbs pressure respectively). Aseptically add 10% rabbit or horse serum. Cool and dry under 85% N₂, 10% H₂ and 5% CO₂ atmosphere.

Principle And Interpretation

Enriched Thioglycollate Medium is recommended for use in isolation and cultivation of fastidious and obligate anaerobic bacteria from clinical materials (1). This medium is often used for susceptibility testing of anaerobes by broth disk elution method. This medium is the modification of original Brewers formulation (2,3), with the addition of vitamin K1, sodium bicarbonate, hemin and rabbit or horse serum.

Tryptone and soya peptone supports growth of wide variety of fastidious microorganisms. Sodium thioglycollate lowers the oxidation-reduction potential for anaerobic growth and also neutralizes the bacteriostatic effect of mercurial compounds. Most organisms show earlier and more vigorous growth in presence of dextrose, hemin and vitamin K1. Hemin is the source of X-factor, which stimulates the growth of many microorganisms.

Type of specimen

Clinical : wound swabs, skin swabs or scrapings, tooth tartar etc.

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (1,2). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

In Vitro diagnostic use.. 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.

