



Brewer Thioglycollate Medium, Modified

M195A

Intended Use:

Recommended for testing sterility of biological products and for isolation of aerobic and anaerobic organisms.

Composition**

Ingredients	Gms / Litre
HM peptone B #	1.500
Yeast extract	2.000
Peptone	5.000
Dextrose (Glucose)	5.000
Sodium chloride	5.000
Sodium thioglycollate	1.100
Methylene blue	0.002
Agar	1.000
Final pH (at 25°C)	7.2±0.2

**Formula adjusted, standardized to suit performance parameters

Equivalent to Beef extract

Directions

Suspend 20.6 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Dispense in tubes or suitable containers as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C.

Note : If more than the upper one third medium has acquired a green colour, the medium may be restored once by heating in a waterbath or free flowing steam until the green colour disappears.

Principle And Interpretation

Brewer Thioglycollate Medium is prepared as per the original formula of Brewer (1,2). Brewer thioglycollate medium, modified is modification of original Brewer medium for sterility testing of product containing mercury preservatives. It contains highly nutritious Peptone, HM peptone B and yeast extract, which support luxuriant growth of even fastidious bacteria. Sodium thioglycollate helps to create anaerobic condition as well as neutralize toxicity of mercurial components in the test material. Very small amount of agar helps in maintaining anaerobic condition. Methylene blue will indicate oxygen content of the medium by establishing bluish green colour to the medium, in presence of oxygen. The modified medium contains more thioglycollate and is recommended for sterility testing procedure.

Type of specimen

Industrial samples for sterility testing.

Specimen Collection and Handling:

For Industrial samples, follow appropriate techniques for sample collection, processing as per guidelines (1,2).

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

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 specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. Further biochemical testing is required for complete identification.

Disclaimer :

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