

Technical Information

Brewer Thioglycollate Medium, Modified

Product Code: DM 1195A

Application: Brewer thioglycollate medium, modified is used for testing sterility of biological products and for isolation of aerobic and anaerobic organisms.

Composition**

Ingredients	Gms / Litre
Beef extract	1.500
Yeast extract	2.000
Peptic digest of animal tissue	5.000
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

Principle & Interpretation

Brewer thioglycollate medium, modified is modification of original Brewer medium ^(1, 2) for sterility testing of product containing mercury preservatives. It contains highly nutritious peptic digest of animal tissue, beef extract 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.

Methodology

Suspend 20.6 grams of powder media in 1000 ml distilled water. Shake well and heat 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.

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.

Quality Control

Physical Appearance

Cream to yellow coloured homogeneous free flowing powder

Colour and Clarity of prepared medium

Yellow coloured clear to slightly opalescent fluid with upper 10% or less medium bluish green on standing.

Reaction

Reaction of 2.06% w/v aqueous solution at 25°C. pH : 7.2±0.2

pH Range:- 7.00-7.40

Cultural Response/Characteristics

DM 1195A: Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 48 hours.



Dehydrated Culture Media
Bases / Media Supplements

Organism	Inoculum (CFU)	Growth
<i>Bacteroides melaninogenicus</i> ATCC25848	50-100	luxuriant
<i>Bacteroides vulgatus</i> ATCC 8482	50-100	Luxuriant
<i>Candida albicans</i> ATCC 10231	50-100	Luxuriant
<i>Clostridium sporogenes</i> ATCC 11437	50-100	-Luxuriant
<i>Micrococcus luteus</i> ATCC 10240	50-100	Luxuriant
<i>Neisseria meningitidis</i> ATCC 13090	50-100	Luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	50-100	Luxuriant
<i>Streptococcus mitis</i> ATCC 9811	50-100	Luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	Luxuriant

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8⁰ in sealable plastic bags for 2-5 days.

Further Reading

1. Brewer, 1940, J. Bact. 39:10.
2. Brewer, 1940, J.A.M.A. 115:598.

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