

TM 677 – BREWER THIOGLYCOLLATE MEDIUM, MODIFIED

INTENDED USE

For sterility testing of biological products and for isolation of aerobes and anaerobes.

PRODUCT SUMMARY AND EXPLANATION

Brewer Thioglycollate Medium is prepared as per the original formula of Brewer. Brewer thioglycollate medium, modified is modification of original Brewer medium for sterility testing of product containing mercury preservatives. The modified medium contains more thioglycollate and is recommended for sterility testing procedure.

COMPOSITION

Ingredients	Gms / Ltr
Beef extract	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

PRINCIPLE

It contains highly nutritious Peptone, 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.

INSTRUCTION FOR USE

- Dissolve 20.6 grams in 1000 ml purified/distilled water.
- Heat to boiling to dissolve the medium completely.
- Dispense in tubes or flasks as desired.
- Sterilize by autoclaving at 15 psi 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 water bath or free flowing steam until the green colour disappears.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow coloured homogeneous free flowing powder.
Appearance of prepared medium	: Yellow coloured clear to slightly opalescent fluid with upper 10% or less medium bluish green on standing.
pH (at 25°C)	: 7.2±0.2

INTERPRETATION

Cultural characteristics observed after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Bacillus megaterium</i>	25848	50-100	Luxuriant	35-37°C	18-48 Hours
<i>Bacteroides vulgatus</i>	8482	50-100	Luxuriant	35-37°C	18-48 Hours
<i>Candida albicans</i>	10231	50-100	Luxuriant	35-37°C	18-48 Hours
<i>Clostridium sporogenes</i>	11437	50-100	Luxuriant	35-37°C	18-48 Hours
<i>Micrococcus luteus</i>	10240	50-100	Luxuriant	35-37°C	18-48 Hours
<i>Neisseria meningitidis</i>	13090	50-100	Luxuriant	35-37°C	18-48 Hours
<i>Staphylococcus aureus</i> <i>subsp. aureus</i>	25923	50-100	Luxuriant	35-37°C	18-48 Hours
<i>Streptococcus mitis</i>	9811	50-100	Luxuriant	35-37°C	18-48 Hours
<i>Streptococcus pyogenes</i>	19615	50-100	Luxuriant	35-37°C	18-48 Hours

PACKAGING:

In pack size of 100 gm and 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL













After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Brewer, 1940, J. Bact. 39:10.
2. Brewer, 1940, J.A.M.A. 115:598.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.



4. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, Andry, M.L., Richter, S.S and Warnock.,D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedNet GmbH Borkstrasse 10, 48163 Muenster, Germany</small>	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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