

B2551 Brewer thioglycollate medium

Brewer Thioglycollate Medium is used for testing the sterility of biological products.

Composition:

Ingredients	Grams/Litre
Proteose Peptone	10.0
Infusion from 500 g of Beef	17.5
Dextrose	5.0
Sodium chloride	5.0
Dipotassium Phosphate	2.0
Sodium Thioglycollate	0.5
Methylene Blue	0.002
Agar	0.5
Final pH 7.2 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C.

Appearance: Light yellow colored, homogeneous, free flowing powder.

Color and Clarity: Yellow colored, clear to very slightly opalescent fluid with an upper 10% of the medium bluish green on standing.

Directions:

Suspend 40.5 g of Brewer Thioglycollate Medium in 1000 ml of distilled water. Boil to dissolve the medium completely. Dispense in tubes or in 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 of medium has acquired a green color, the medium may be restored once by heating on a water bath or free flowing steam until the green color disappears.

Principle and Interpretation:

Brewer Thioglycollate Medium contains highly nutritious proteose peptone and beef infusion which support the luxuriant growth of fastidious bacteria. Sodium thioglycollate helps to create anaerobic conditions and it neutralizes toxicity of mercurial compounds if they are present in the inoculum. A very small amount of agar present in the medium maintains the anaerobic conditions at the bottom of the broth. Methylene blue indicates oxygen content of the medium by exhibiting a bluish-green color of the medium in the presence of oxygen.

Cultural characteristics after 18-48 hours at 35°C.

Organisms (ATCC)	Growth
<i>Bacteroides melaninogenicus</i> (25848)	+++
<i>Clostridium sporogenes</i> (11437)	+++
<i>Streptococcus mitis</i> (9895)	+++
<i>Streptococcus pyogenes</i> (19615)	+++



References:

1. Bulletin, National Institute of Health, 1941.
2. American Type Culture Collection, Manassas, Va., U.S.A.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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