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Thioglycollate Medium w/o Dextrose

Thioglycollate Medium w/o Dextrose is employed for cultivating aerobes, microaerophiles, and anaerobes, as well as for conducting carbohydrate fermentation studies using various sugar sources.

REF: BS.1/NZ01.100.0100	100 Gram	REF: BS.1/NZ01.250.0250	250 Gram
REF: BS.1/NZ01.500.0500	500 Gram		

PRINCIPLE AND INTERPERTATION :

Thioglycollate Medium without dextrose and indicator is the modification of original Thioglycollate medium (1, 2) used for the fermentation study of anaerobes and for enhancement of sporulation. Omission of dextrose facilitates it to be used in fermentation studies with the addition of desired carbohydrate. Some Clostridia remain viable for a longer period and sporulate better in the absence of carbohydrate and thus this medium could be used for sporulations. Casein enzymic hydrolysate, L-cystine and yeast extract provide essential nutrients like nitrogenous compounds, carbon, sulphur, minerals and amino acids. Sodium thioglycollate is incorporated as a reducing agent which lowers the oxidationreduction potential thereby enabling the obligate anaerobes to multiply. A small amount of agar is added to retard the absorption of oxygen by reducing convection currents in the medium.

MEDIA COMPOSITION

Final pH (at 25°C) 7.2 ± 0.2 ** Formula adjusted, standardized to suit performance parameters.

Item	Formula per liter of medium
Casein enzymic hydrolysate	15.00 gm
Sodium chloride	2.50 gm
Sodium thioglycollate	0.50 gm
L-Cystine	0.250 gm
Yeast extract	5.00 gm
Agar	0.750 gm

PRECAUTIONS AND WARNINGS

Media to be handled by entitled and professionally educated person. Do not ingest or inhale.

Good Laboratories practices using appropriate precautions should be followed in:

- Wearing personnel protective equipment (overall, gloves, glasses,).
- Do not pipette by mouth.
- In case of contact with eyes or skin; rinse immediately with plenty of soap and water. In case of severe injuries; seek medical advice immediately.
- Respect country requirement for waste disposal.
  S56: dispose of this material and its container at hazardous or special waste collection point.
  S57: use appropriate container to avoid environmental contamination.
  S61: avoid release in environment.

For further information, refer to the Thioglycollate Medium material safety data sheet.

STORAGE AND STABILITY

BioScien Thioglycollate Medium without Dextrose Store below 30°C and the prepared medium at 2-8°C. Use before expiry date on the label. Product performance is best if used within stated expiry period.

PREPARATION

Suspend 24.00 grams in 1000 ml distilled water. If the medium is to be used for fermentation studies or for diagnostic work add 0.5 to 1% carbohydrate of choice. Heat to boiling to dissolve the medium completely. Dispense and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Alternatively, sterile carbohydrate solutions may be added to the broth after sterilization. The prepared medium should be stored in the dark at room temperature.

Deterioration

The color of ***BioScien*** Thioglycollate Medium without Dextrose Cream to yellow homogeneous free flowing powder. prepared medium Light amber coloured, very slightly opalescent viscous solution with upper 10% or less medium green on standing

EQUIPMENT REQUIRED NOT PROVIDED

- Sterile petri dishes
- Incubator
- Autoclave

PERFORMANCE CHARACTERISTICS

Cultural Characteristics observed after an incubation at 35-37°C for 48 hours (in an appropriate atmosphere) with added carbohydrates.

Organisms (ATCC)	Growth
Clostridium sporogenes ATCC 11437	*good-luxuriant*
Streptococcus pyogenes ATCC 19615	*good-luxuriant*
Bacillus subtilis ATCC 6633	*good-luxuriant*
Candida albicans ATCC 10231	*good-luxuriant*
Neisseria meningitidis ATCC 13090	*good-luxuriant*

QUALITY CONTROL

To ensure adequate quality control, it is recommended that positive and negative control included in each run. If control still out of range please contact ***BioScien*** technical support.

REFERENCE

1. Brewer J. H., 1940, J. Am Med. Assoc., 115, 598.
2. 2. Brewer J. H., 1940, J. Bacteriol., 39:10.

SYMBOLS IN PRODUCT LABELLING

IVD	For in-vitro diagnostic use		Number of <n> test in the pack
LOT	Batch Code/Lot number		Caution
REF	Catalogue Number		Do not use if package is damaged
	Temperature Limitation		Consult Instruction for use
	Expiration Date		
	Manufactured by		