OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Thioglycollate Broth, Alternative (Alternative thioglycollate Medium)

Principle

Thioglycollate broth, alternative is formulated as described in the N.I.H. memorandum (1955). Fluid Thioglycollate Medium is composed of tryptone, yeast extract, dextrose, sodium chloride, L-cystine and sodium thioglycollate. Tryptone serves as a source of nitrogen, amino acids and other essential nutrients. Yeast extract provide essential nutrients to the contaminants, if present. Dextrose serves as the energy source. Sodium chloride maintains the osmotic balance of the medium. L-cystine, and sodium thioglycollate lower the oxidation-reduction potential of the medium by removing oxygen to maintain a low Eh.

Use: For sterility testing of turbid or viscous biological products.

Contents*

Ingredients	Gram/Litre
Tryptone	15.000
Yeast Extract	5.000
Dextrose	5.500
Sodium Chloride	2.500
L-Cystine	0.500
Sodium Thioglycollate	0.500
pH at 25˚C	7.1 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 3.21 grams in 1000 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs. pressure (121 °C) for 15 min, cool it to 42-45 °C use for sterility test. If required adjust the pH with sterile 1N HCl or 1N NaOH.

Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

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Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	**Light beige colored free flowing, homogeneous powder**
Reaction of 2.90 %	**7.1 ±0.2 at 25 ˚C**
pH	**6.90- 7.30**
Color and clarity of ready medium	**Light yellow colored clear solution**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Cultural characteristics observed after incubation at 30-35°C for 2 to 3 days.

Organism	ATCC	Inoculum (CFU)	Growth
***Clostridium sporogenes**	11437	50-100	Luxuriant
***Clostridium perfringens**	3624	50-100	Luxuriant
***Bacteroides vulgatus**	8482	50-100	Luxuriant
Staphylococcus aureus	25923	50-100	Luxuriant
Pseudomonas aeruginosa	27853	50-100	Luxuriant
Escherichia coli	8739	50-100	Luxuriant
Escherichia coli	25922	50-100	Luxuriant
Salmonella typhimurium	14028	50-100	Luxuriant

Note: * incubate at anaerobic conditions

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Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. **Atlas, R. M. (2005).** ***Handbook of media for environmental microbiology*****. CRC press.**
2. **N.I.H. Memorandum, (1955)** ***Culture Media for Sterility Tests*****, 4th Revision.**
3. ***The United States Pharmacopoeia,*** **(2019), The United States Pharmacopoeial Convention. Rockville, MD.**

Disclaimer:

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