OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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TECHNICAL DATA SHEET

Thiobacillus Agar

Principle

Thiobacillus is the genus of gram-negative bacteria. The thiobacillus has ability to obtain energy from the oxidation of elemental sulfur or sulfur containing compounds. The medium contains three inorganic sulphates and a thiosulphate. Phosphate serves as a buffer while sodium chloride maintains the osmotic balance of the medium. Samples are streak or spread on Thiobacillus agar at 25-30°C for about 7 days or more, after incubation, small sulphur impregnated colonies with clear zones, indicating acid formation from thiosulphate oxidation.

Use: For the cultivation and isolation of Thiobacillus species.

Contents*

Ingredients	Gram/Litre
Ammonium Sulphate	0.400
Monopotassium Phosphate	4.000
Calcium Chloride	0.250
Ferrous Sulphate	0.010
Magnesium Sulphate	0.500
Sodium Thiosulphate	5.000
Agar	12.500

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

Directions: Dissolve 22.66 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 and inoculate test sample aseptically.

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	**Off white colored free flowing, homogeneous powder**
Gelling	**Firm comparable with 1.25% agar gel**
Color and clarity of ready medium	**Light amber, slightly opalescent solution**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Cultural characteristics observed after incubation at 25-30°C for 7 days.

Organism	ATCC	Inoculum (CFU)	Growth
Thiobacillus thiooxidans	**8085**	**50-100**	**Luxuriant**

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.

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Reference

1. **Atlas, R. M. (2005).** ***Handbook of media for environmental microbiology*****. CRC press.**
2. **Starkey R. L., 1935, Science, 39:197.**

Disclaimer:

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