OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Lauryl Sulphate Broth (Lauryl Tryptose broth)

Principle

Lauryl sulphate broth is composed of tryptose, lactose, potassium phosphate dibasic and monobasic, sodium chloride and sodium lauryl sulfate. Tryptose provides nitrogen and amino acids. Lactose is fermentable carbohydrate. Potassium phosphates are buffering agents. Sodium chloride maintain osmatic balance. Sodium lauryl sulfate inhibits non-coliforms. The selectivity to the medium is provide by lactose and sodium lauryl sulfate.

Use: Recommended for detecting coliform organisms in water and wastewater.

Contents*

Ingredients	Gram/Litre
Tryptose	20.000
Lactose	5.000
Potassium Phosphate Dibasic	2.750
Potassium Phosphate Monobasic	2.750
Sodium Chloride	5.000
Sodium Lauryl Sulfate	0.100
pH at 25°C	6.8 ±0.2

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

Directions: Dissolve 35.60 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute in test tube containing inverted Durham's tube. Sterilize by autoclaving at 15 lbs. pressure (121 °C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.
Note: for 1.0 or less than 1.0 ml of water sample single strength broth is used and for more than 1.0 ml double strength broth is used.

Specimens types analyzed

Food, dairy and water samples, clinical and non-clinical samples etc.

OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Oxford
Range of
Laboratory Chemicals

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 3.5% solution	**6.8 ±0.2 at 25 ˚C**
pH	**6.60- 7.00**
Color and clarity of ready medium	**Light amber colored clear opalescent soltuion**
Growth Promotion properties	**Best at ≤ 100 CFU at 32-37 ºC for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Different Microbial Response
Cultural characteristics observed after incubation at 25-30°C for 24-48 hours

Organism	ATCC	Inoculum	Growth	Gas production	Incubation
Escherichia coli	8739	50-100	Luxurious	Positive	33-37 °C, 18-24 h

Storage and Shelf Life: Hygroscopic; keep container tightly closed. Store in cool dry place.

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. Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.

Disclaimer:

****

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.
Oxford Lab Fine Chem LLP makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Oxford Lab Fine Chem LLP will not be responsible for damages resulting from use of or reliance upon this information.