

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 osmotic balance. Sodium lauryl sulfate inhibits non-coliforms. The selectivity to the medium is provide by lactose and sodium lauryl sulfate.

Use: For detection and enumeration of coliform bacteria in water, waste water, dairy products & other foods samples

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.

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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 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 solution
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response: Cultural characteristics observed after incubation at 33-37°C for 18-24 hours. (Inoculum 50-100 CFU)

Organism	ATCC	Growth	Gas production
<i>Escherichia coli</i>	8739	Luxurious	Positive
<i>Escherichia coli</i>	25922	Luxurious	Positive
<i>Klebsiella aerogenes</i>	13048	Luxurious	Positive
<i>Salmonella typhimurium</i>	14028	Luxurious	Negative
<i>Staphylococcus aureus</i>	25923	Inhibited	--
<i>Enterococcus faecalis</i>	14506	Inhibited	--

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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.

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