

Lauryl Sulfate Tryptose Broth (LST)

Product No. CM102

Intended Use

Used for the detection of *Coliforms*, *Fecal coliform* and *E.coli* by MPN method. For identifying *E. coli* O157: H7, LST-MUG broth (CM102A) can be made by adding MUG. (GB, SN, FDA BAM)

Specification 250 g

Ingredients	(g/L)
Tryptose	20.0
Sodium Chloride	5.0
Lactose	5.0
Dipotassium Phosphate	2.75
Monopotassium Phosphate	2.75
Sodium Lauryl Sulfate	0.1
(pH 6.8 ± 0.2)	

Additional Reagents

No

Principle and Interpretation

Tryptose provides essential growth substances, such as nitrogen and carbon compounds, sulfur and trace ingredients. The potassium phosphates provide buffering capacity. Sodium chloride maintains osmotic equilibrium. Lactose provides a source of fermentable carbohydrate for *coliform* organisms. The fermentation of lactose with gas formation is a presumptive test for *coliforms*. Sodium lauryl sulfate inhibits organisms other than *coliforms*.

Directions

Suspend 35.6 g of the powder in 1 L of distilled water. For double strength medium, suspend 71.2 g of the powder in 1 L of distilled water. Heat with frequent agitation and boil to dissolve completely. Dispense 10mL into test tubes, containing inverted Durham tubes. Autoclave at 121°C for 15 minutes.

Precautions

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No

Quality Control

Microorganisms	Inoculum (CFU)	Reference Medium	Method	Incubation	Growth (Productivity Ratio : PR)
<i>Escherichia coli</i> ATCC 25922	10-100	TSA	semiquantitative	36°C±1°C 24h-48h	Turbidity 2, gas production is more than a third of Durham tubes.
<i>Escherichia coli</i> CICC 25012 [CMCC(B) 43201]					
<i>Citrobacter freundii</i> ATCC 43864	10-100	TSA	semiquantitative		
<i>Citrobacter freundii</i> CICC 25015 [CMCC(B) 48098]					
<i>Enterococcus faecalis</i> ATCC 29212	1000-5000	TSA	semiquantitative		Turbidity 0 (no growth)
<i>Enterococcus faecalis</i> CICC 25019 [CMCC(B) 32482]					

Storage Conditions

Keep container tightly closed and store in a cool dry place.

Shelf Life

3 years.

Related Products

Product No.	Product Name	Specification
CM102-01	Lauryl Sulfate Tryptose Broth (LST)	1000 g
CM102-05	Lauryl Sulfate Tryptose Broth (LST)	10 mLx20
CM102-05S	Lauryl Sulfate Tryptose Broth (LST) -Double Strength	10 mLx20
GCM102	Lauryl Sulfate Tryptose Broth (LST)	250 g
GCM102-1K	Lauryl Sulfate Tryptose Broth (LST)	1000 g

For laboratory use in industry or R&D purpose. Not for drug, household or other uses.

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