Lauryl Sulfate Tryptose Broth with Tryptophan and MUG
(LST/MUG Medium)

TN1153 500 g

Intended use

Used for the detection and determination of the germ count of coliform bacteria from water, waste water, foodstuffs and dairy products.

Form

Powder

Colour

Bright beige

Storage

Dry, tightly closed, at 10...30 °C.

Shelf life

5 years

Directions

Dissolve 36.7 g (for single-strength) or 73.4 g (for double-strength) in 1 litre distilled water. Distribute into containers with Durham tubes and autoclave at 121 °C for 15 minutes.

Typical composition

Component	g/l
Tryptose	20
Lactose	5
Sodium chloride	5
Sodium lauryl sulfate	0.1
Dipotassium hydrogen phosphate	2.75
Potassium dihydrogen phosphate	2.75
MUG (4-Methylumbelliferyl-ß-D-glucuronide)	0.1
Tryptophan	1

Final pH at 25 °C

6.8 ± 0.1

Microbiological quality control

Incubate Lauryl Sulfate Tryptose Broth with Tryptophan and MUG (LST/MUG Medium) aerobically for 24 ± 2 h to 48 ± 2 h at 30 ± 1 °C.

Test strain	ATTC no.	WDCM	Turbidity	Gas formation	Fluorescence at 366 nm	Indole formation
Escherichia coli	25922	00013	+	+	+	+
Escherichia coli	8739	00012	+	+	+	+
Klebsielle pneumoniae	13883	00097	+	+	-	-
Salmonella Typhimurium	14028	00031	+	-	-	-
Citrobacter freundii	43864	00006	+	+	-	-
Enterobacter cloacae	13047	00083	+	+	-	-

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