Lactose TTC Agar with Tergitol-7

Catalog :HB8675-2

Lactose TTC Agar with Tergitol-7 is used for the detection and enumeration of E.coli and coliform bacteria in water using the membrane filtration method.

Approximate Formula:

Ingredients	gm/liter
Peptone	10.0
Lactose	20.0
Yeast Extract	6.0
Meat Extract	5.0
Bromothymol Blue	0.05
Tergitol-7	0.1
Agar	12.7

Final pH7.2±0.2 at 25℃

*Adjusted and/or supplemented as required to meet performance criteria.

Directions:

Suspend 53.9g of the medium in one litre of distilled water. Mix well and heat with frequent agitation. Sterilize in an autoclave at 121℃ for 15 minutes. Cool the medium in a water bath to 45~50℃,add 5mL of a sterile filtrated 0.05%aqueous solution of TTC to 100mLbasal medium. Mix well and pour the medium into petri dishes.

Principle and Interpretation:

Peptone, meat extract and yeast extract provide nitrogen sources, vitamins and growth factors, lactose is fermentable sugar, Agar is the solidifying agent of the medium. Bromothymol Blue is pH indicator.

Appearance:

Dehydrated medium is a free-flowing yellowish powder. The prepared medium is a kind of blue-green transparent gel.

Precautions:

This medium is for laboratory use only. Dried medium which is past shelf life, caking or color variation cannot be used.

Storage conditions and Shelf life:

Lactose TTC Agar with Tergitol-7 must be stored tightly capped in the original container at 5-30°C. The dehydrated medium has a shelf life of 3 years from date of manufacturing. Prepared medium may be stored, out of direct light at 2-8°C.

Quality control:

Inoculate and aerobic incubate at 36±1℃ for 18-24 hours.

Microorganism	Strains Number	Inoculum (CFU)	Growth	Recovery	Remarks
Staphylococcus aureus	ATCC 6538	/	Inhibited	/	/
Escherichia coli	ATCC 25922	20-200	Luxuriant	≥70%	Yellow colonies
Salmonella typhimurium	ATCC 14028	20-200	Luxuriant	≥70%	Red colonies
Enterobacter cloacae	ATCC 23355	20-200	Luxuriant	≥70%	Yellow colonies
Enterobacter aerogenes	ATCC 13048	20-200	Luxuriant	≥70%	Yellow colonies

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