

TTC Tergitol-7 LAB-AGAR™

Selective medium for the enumeration of E.coli and coliform from potable water by filtration membrane technique Medium according to ISO 9308-1 standard.

Formula in g/L

Peptone.....	10,00	Yeast extract	6,00
Beef extract	5,00	Lactose.....	20,00
Bromothymol blue	0,05	Tergitol-7	0,10
Agar	15,00	TTC 1% solution	2,5 ml

Final pH at 25°C: 7,2 ± 0,1

Principles:

The lactose fermented agar with TTC and Tergitol 7 comes from Chapman works. It is used for the research and the enumeration of heat resistant coliforms, and particularly suitable for the membrane technique with water specimens. Tergitol 7 (sodium heptadecyl) inhibits Gram-positive bacteria growth, reduces Proteus proliferation and helps coliforms spreading. TTC (Tryphenyl 2,3,5-Tetrazolium chloride) another additive, is very quickly reduced into formazon by most of coliform bacteria (except) Enterobacter aerogenes and Escherichia coli) and gives a red colour the colonies. The microorganisms capable of fermenting lactose produce yellow colonies with a yellow halo, due bromothymol blue, a pH indicator.

Technique:

- ★ When using membrane filter method, each sample to be tested requires 1 membrane (sterile 47 mm, with 0,45 µm minimum porosity) that is placed a dish. Make sure that no bubble occurs between the membrane and the agar.
- ★ Incubate the dish reverse way up at 36 ± 2°C for 21 ± 3 hours.

Results

Take into consideration all colonies, reading less of their size, that turn the medium yellow under membrane.

Carry out confirmation tests (oxydase and indole production) one at least 10 colonies.

Storage / Shelf life

- ★ prepared plates at 2 - 12°C shielded from light
- ★ The expiration date is indicated on the label.

Purpose:

- ★ product intended the professional use in diagnostics in vitro

Dealing with waste:

- ★ dealing with – waste according to regulations being in effect in this respect

Dealing with consumed bases:

- ★ one should remove consumed bases according to procedures being in effect in the given individual

Pack size

Box of 20 Petri dishes 90 mm

Ref.

PP 1125

