

**TTC Tergitol-7 LAB-AGAR™**

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

<b>Formula in g/L</b>			
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 ± 0,2

**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.

**Prepared:** ligely the medium in boiling in water bath approx. 1 hour (100°C) then cool to 45-50°C. Mix well. Pour the medium into sterile Petri dishes.

**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 bottles at 2 - 25°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

6 bottles x 100 ml  
6 bottles x 200 ml

Ref.

BT 5125.01  
BT 5125.02

