

## Specification

Reagent to be added, as indicator, into many microbiological culture media.

## Presentation

1 Prepared Bottle  
Bottle 125 ml  
with: 100 ± 3 ml

### Packaging Details

1 box with 1 bottle (amber) 125 ml. Injectable cap:  
Plastic screw inner cap. The use of syringes needles  
with a diameter greater than 0.8 mm is not  
recommended.

### Shelf Life

24 months

### Storage

4-12°C

## Composition

Composition (g/l):

2,3,5 Triphenyl tetrazolium chloride 10.0  
Steril distilled water..... 1000 ml

Reagent to be added, as aerobic indicator,  
into culture media : Tergitol ® 7 Agar Base,  
Slanetz Bartley Agar Base, PCA, TSA, etc.

## Description /Technique

1% 2-3-5-triphenyl-2H-tetrazolium chloride sterile solution. It is used as an additive for culture media to show biological activity, since the colourless form gets hydrogenized or reduced to a red insoluble pigment: triphenyl-formazan, which may be easily observed.

Despite of TTC decomposes at 243°C, it is not advisable to incorporate it to culture media before sterilization, because it lose efficacy. Very good results may be achieved when the addition is carried out aseptically with cold medium at 60°C maximum. TTC is photolabile and becomes yellow by the effect of light, therefore keep it in the refrigerator and avoid direct light. Concentration of use vary depending on the medium, but generally it goes between 0,3 and 1% (v/v).

This product is especially produced to be added to the following media:

- Agar Chapman TTC (Tergitol 7® Aga)
- Agar Slanetz y Bartley (SB Agar)
- General purpose media : TSA or PCA

## Quality control

### Physical/Chemical control

Color : Transparent/colourless      pH: at 25°C

### Microbiological control

Add 2,5ml to 1l of medium TSA / pour into plates

Inoculate: Practical range 100 ± 20 CFU; Min. 50 CFU (Productivity)/ 10<sup>4</sup>-10<sup>6</sup> (Selectivity).

Aerobiosis. Incubation at 37 °C±1, reading after 24-48±2h

### Microorganism

*Escherichia coli* ATCC® 8739, WDCM 00012  
*Salmonella enterica* ATCC® 13076, WDCM 00030  
*Enterococcus faecalis* ATCC® 29212, WDCM 00087

### Growth

Good- dark red colonies  
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Microbiological control methods based on the ISO 11133:2014/ Adm 1:2018.

### Sterility Control

Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH  
Check at 7 days after incubation in same conditions

## Bibliography

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- ISO 9308-1:2000 Standard. Water Quality - Detection and enumeration of *Escherichia coli* and coliform bacteria - Part 1: Membrane filtration method.
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