

TECHNICAL DATA SHEET

TTC 50 MG SELECTIVE SUPPLEMENT

ENUMERATION OF *ENTEROCOCCI* IN WATER

1 INTENDED USE

TTC 50 mg supplement is an indicator of bacterial growth. It is used with Slanetz and Bartley Agar (base) or KF *Streptococcus* Agar (base) for the enumeration of enterococci in tap water, beverages, sewage and various biological products, using both the membrane filtration technique and the classical technique of enumeration in Petri plates.

2 PRINCIPLES

Enterococci reduce the TTC (2,3,5-triphenyltetrazolium chloride) to an insoluble formazan inside the cell. This reaction is manifested by the appearance of red to maroon colonies.

3 COMPOSITION

For one vial :

- Triphenyltetrazolium (chloride) 50,0 mg

4 RECONSTITUTION

- Using aseptic techniques, fill the vial of lyophilisate with 5 mL of sterile distilled water.
- Turn end-over-end to dissolve. Avoid frothing the solution.
- Add 1 mL of rehydrated supplement to 100 mL of agar that has been previously brought to boiling and then maintained in a molten state at 44-47 °C.

5 QUALITY CONTROL

Appearance : white lyophilisate, giving a colorless solution after reconstitution.

Typical culture response in Slanetz & Bartley agar after 44 hours of incubation at 36 °C (NF EN ISO 11133) :

Microorganisms	Growth (Productivity Ratio : P_R)
<i>Enterococcus faecalis</i>	WDCM 00009 $P_R \geq 50\%$
<i>Enterococcus faecalis</i>	WDCM 00176 $P_R \geq 50\%$
<i>Enterococcus faecium</i>	WDCM 00177 $P_R \geq 50\%$
<i>Escherichia coli</i>	WDCM 00012 Inhibited, score 0
<i>Staphylococcus aureus</i>	WDCM 00032 Inhibited, score 0

6 STORAGE / SHELF LIFE

Freeze-dried supplement : 2-8 °C, shielded from light.

The expiration date is indicated on the label.

Rehydrated supplement (*) : 30 days at 2-8 °C, shielded from light.

(*) Benchmark value determined under standard preparation conditions, following manufacturer's instructions.

6 PACKAGING

10 vials BS02708

7 BIBLIOGRAPHY

NF EN ISO 7899-2. Aout 2000. Qualité de l'eau - Recherche et dénombrement des entérocoques intestinaux - Partie 2 : méthode par filtration sur membrane

FIL-IDF 149A. Juillet 1997. Levains lactiques de cultures de bactéries lactiques. Norme de composition.

8 ADDITIONAL INFORMATION

The information provided on the labels take precedence over the formulations or instructions described in this document and are susceptible to modification at any time, without warning.

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