TTC 1% SOLUTION

Liquid supplement

1 – Intended use

TTC 1% Solution is used as liquid supplement in various microbiological media formulations.

2 - Composition - bottle contents

Triphenyl tetrazolium chloride (TTC)	0.3 g
Purified water	30 mL

3 - Principle of the method and explanation of the procedure

TTC 1% Solution can be used for the supplementation of media for the enumeration of enterococci (Azide Maltose Agar KF, Slanetz Bartley Agar w/o TTC) and *Escherichia coli* (TTC Tergitol Agar Base). It is a versatile chemical compound widely used as a redox indicator in cell viability assays and for the detection of microbial growth.
Triphenyl tetrazolium chloride is a sensitive indicator of dehydrogenase and its reduction to insoluble formazan produces dark red colonies.

4 - Directions

The solution is ready to use. TTC 1% Solution can be used for the supplementation of the following media cooled to 45°C /50°C:
To 1000 mL of TTC Tergitol Agar Base (REF 402160T) add 2.5 mL of TTC 1% Solution.
To 1000 mL of Azide Maltose Agar KF (REF 401107), add 10 mL of TTC 1% Solution.
To 1000 mL of Slanetz Bartley Agar w/o TTC (REF 402047) add 10 mL of TTC 1% Solution.
Refer to the Instructions for Use of mentioned basal media for details of media preparation.

5 – Physical characteristics

Appearance of the solution	clear, colourless

6 - Materials provided - packaging

Product	Type	REF	Pack
TTC 1% Solution	Liquid supplement	42111801	30 mL

7 - Materials required but not provided

Basal culture media, water-bath, sterile loops and pipettes, incubator and laboratory equipment as required, Erlenmeyer flasks, sterile Petri dishes.

8 - Specimens

Water and environmental samples, products intended for human consumption and the feeding of animals, and environmental samples from the area of food production and food handling.

9 - Test procedure

For inoculation, incubation and reading procedures, please refer to the Instructions for Use of dehydrated culture media mentioned above.

10 - User quality control

All manufactured lots of the product are released for sale after the Quality Control has been performed to check the compliance with the specifications. However, the end user can perform its own Quality Control testing in accordance with the prepared culture medium, the local applicable regulations, in compliance with accreditation requirements and the experience of the Laboratory. Refer to the Instructions for Use of dehydrated culture media mentioned above for suggested quality control strains.

11 - Limitations of the method

For limitations of the method, please refer to the Instructions for Use of dehydrated culture media mentioned above.

12 - Precautions and warnings

- TTC 1% Solution is for microbiological control and for professional use only; it must be used by adequately trained and qualified laboratory personnel, observing approved biohazard precautions and aseptic techniques.
- The supplement and the basal media shall be used in association according to the directions described above. Apply Good Manufacturing Practice in the preparation process of plated media.
- TTC 1% Solution is sterilised by filtration.
- TTC 1% Solution is classified as hazardous; consult the Safety Data Sheet before the use,
- All laboratory specimens should be considered infectious.
- The laboratory area must be controlled to avoid contaminants such as medium powder and supplements or microbial agents.
- Sterilize all biohazard waste before disposal. Dispose the unused supplements and the sterilized media inoculated with samples or microbial strains in accordance with current local legislation.
- Do not use TTC 1% Solution as active ingredients for pharmaceutical preparations or as production materials intended for human and animal consumption.
- The Certificates of Analysis and the Safety Data Sheet of the products are available on the website www.biolifeitaliana.it.
- The information provided in this document has been defined to the best of our knowledge and ability and represents a guideline for the proper use of the product but without obligation or liability. In all cases existing local laws, regulations and standard procedures must be observed for the examination of samples collected from human and animal organic districts, for environmental samples and for products intended for human or animal consumption. Our information does not relieve our customers from their responsibility for checking the suitability of our product for the intended purpose.

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13 - STORAGE CONDITIONS AND SHELF LIFE

Upon receipt, store the product in the original package at 2-8°C away from direct light. If properly stored, the product may be used up to the expiry date printed on the label; do not use beyond this date. Before use, examine the solution and discard if there are obvious signs of deterioration (e.g., contamination, atypical colour or other abnormal characteristics)

TABLE OF APPLICABLE SYMBOLS

REF or REF Catalogue number	LOT Batch code	Manufacturer	This side up	Fragile
Temperature limitation	Content sufficient for <n> tests	Consult Instructions for Use	Use by	Keep away from direct light

REVISION HISTORY

Version	Description of changes	Date
Revision 1	Updated layout and content	2024/10

Note: minor typographical, grammatical, and formatting changes are not included in the revision history.