

TTC 0.05% SOLUTION

Liquid supplement

1 – INTENDED USE

TTC 0.05% Solution is used as liquid supplement in TTC Tergitol 7 Agar Base.

2 - COMPOSITION - BOTTLE CONTENTS

Triphenyl tetrazolium chloride (TTC)	0.0125 g
Purified water	25 mL

3 - PRINCIPLE OF THE METHOD AND EXPLANATION OF THE PROCEDURE

TTC 0.05% Solution can be used for the supplementation of media for the enumeration of *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.

Suspend 27 g of TTC Tergitol Agar Base (REF 402160T) in 500 mL of cold purified water. Heat to boiling with frequent agitation and sterilise by autoclaving at 121°C for 15 minutes. Cool to 47-50 °C and add, under aseptic conditions, the content of one bottle (25 mL) of TTC 0.05% Solution. Mix well and pour into sterile Petri dishes.

5 – PHYSICAL CHARACTERISTICS

Appearance of the solution clear, colourless

6 - MATERIALS PROVIDED - PACKAGING

Product	Type	REF	Pack
TTC 0.05% Solution	Liquid supplement	421510	10 x 25 mL

7 - MATERIALS REQUIRED BUT NOT PROVIDED

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

8 - SPECIMENS

Water samples. For sample collection, storage, transport and preparation, follow good laboratory practice and refer to applicable International Standards and regulations.

9 - TEST PROCEDURE

For inoculation, incubation and reading procedures, please refer to the Instructions for Use of TTC Tergitol Agar Base.

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 TTC Tergitol Agar Base 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 TTC Tergitol Agar Base.

12 - PRECAUTIONS AND WARNINGS

- TTC 0.05% 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 0.05% Solution is sterilised by filtration.
- TTC 0.05% Solution is not 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 0.05% 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.















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

 or REF Catalogue number	 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.

