



CALCIUM CHLORIDE SOLUTION

Liquid supplement

1 – INTENDED USE

Calcium Chloride Solution is recommended for use as liquid supplement in various microbiological media for the enumeration of somatic coliphages in water according to ISO 10705-2.

2 - COMPOSITION - BOTTLE CONTENTS

Calcium Chloride	3.3 g
Purified water	30 mL

3 - PRINCIPLE OF THE METHOD AND EXPLANATION OF THE PROCEDURE

Calcium Chloride Solution 1M is recommended for the supplementation of Modified Scholtens culture media. Calcium chloride is included in the formulation with sodium chloride and magnesium chloride to maintain osmotic balance without interfering with phage propagation.

4 - DIRECTIONS

The solution is ready to use. Calcium Chloride Solution 1M can be used for the supplementation of the following media, cooled to 45-50°C:

Modified Scholtens' Agar Base (MSA)	REF 401748	0,6 mL / 100mL
semi-solid Modified Scholtens' Agar Base (ssMSA)	REFV 401749	0,6 mL / 100mL

For details on the preparation methods, please refer to the Instructions for Use of the above-mentioned culture media

5 – PHYSICAL CHARACTERISTICS

Appearance of the solution colorless, clear

6 - MATERIALS PROVIDED - PACKAGING

Product	Type	REF	Pack
Calcium Chloride Solution	Liquid supplement	421020	30 mL

7 - MATERIALS REQUIRED BUT NOT PROVIDED

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

8 - SPECIMENS

Samples of natural or waste water, sludge

9 - TEST PROCEDURE

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

12 - PRECAUTIONS AND WARNINGS

- Calcium Chloride 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 basic media shall be used in association according to the directions described above. Apply Good Manufacturing Practice in the preparation process of plated media.
- Calcium Chloride Solution is classified as not dangerous; 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 Iodine 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 Sheets 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)



14 – REFERENCES

ISO 10705-2:2000 Water quality – Detection and Enumeration of bacteriophages, Part 2: enumeration of somatic coliphages

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 0	First publication	2024/10

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

