



CHLORAMPHENICOL ANTIMICROBIC SUPPLEMENT

Freeze-dried selective supplement

1 – INTENDED USE

Freeze-dried supplement for culture media to permit the selective isolation of yeasts and moulds.

2 – COMPOSITION, TYPICAL FORMULA* - VIAL CONTENTS

Chloramphenicol 50 mg

* The formula may be adjusted and/or supplemented to meet the required performances criteria.

3 - PRINCIPLE OF THE METHOD AND EXPLANATION OF THE PROCEDURE

Chloramphenicol is a broad-spectrum antibiotic, which is inhibitory to a wide range of Gram-negative and Gram-positive bacteria. It acts by interfering with bacterial protein synthesis and is mainly bacteriostatic. When added to culture media, chloramphenicol allows the selective isolation of yeasts and moulds and other non-bacterial organisms such as *Trichomonas*, as their growth is not affected by the antibiotic. Because of its relative stability to heat, chloramphenicol can also be added to culture media before autoclaving.

4- DIRECTIONS

Reconstitute one vial of Chloramphenicol Antimicrobial Supplement with 3 mL of a mixture of sterile distilled water-ethanol (1:1). Add to the base medium before or after autoclaving to obtain the desired final chloramphenicol concentration.

Media commonly supplemented with this product include:

DRBC Agar Base REF 401393: add the contents of 1 vial to 500 mL of medium base (chloramphenicol 100 mg/L).¹

DG 18 Agar Base REF 401394: add the contents of 1 vial to 500 mL of medium base (chloramphenicol 100 mg/L).²

Rose Bengal Agar Base REF 401991: add the contents of 1 vial to 500 mL of medium base (chloramphenicol 100 mg/L).³

Sabouraud Dextrose Agar REF 402005: add the contents of 1 vial to 500 mL or to 1 L of medium base (chloramphenicol 100 or 50 mg/L).⁴

CPLM Trichomonas Broth REF 401331: add the contents of 1 vial to 500 mL of medium base (chloramphenicol 100 mg/L).

5 – PHYSICAL CHARACTERISTICS

Appearance of lyophilised product small, white pastille with needles
Appearance of reconstituted product colourless, limpid solution

6 - MATERIALS PROVIDED - PACKAGING

Product	Type	REF	Packaging
Chloramphenicol Antimicrobial Supplement	Supplement for culture media	4240003	10 vials

7 - MATERIALS REQUIRED BUT NOT PROVIDED

Suitable basal media, autoclave, water bath, incubator and other laboratory equipment. Flasks, sterile plates and tubes, loops and sterile swabs for microbiology, accessory culture media and reagents for the identification of colonies.

8 – SPECIMENS

Food, animal feeding stuffs, water, cosmetics, non-sterile pharmaceutical products and other materials.

9 – TEST PROCEDURE

Refer to the Instructions for Use of Culture Media for inoculation, incubation and reading procedures.

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 local applicable regulations, in compliance with accreditation requirements and the experience of the Laboratory. Refer to the Instructions for Use of Culture Media for suggested quality control strains.

11 - LIMITATIONS OF THE METHOD

- Chloramphenicol may inhibit pathogenic fungi.⁵
- A single medium is only rarely useful to recover all pathogens contained in a specimen. Therefore, additional media for the isolation of yeasts and moulds with lower selectivity such as Sabouraud Dextrose Agar or Potato Dextrose Agar and with higher selectivity such as Dermatophyte Test medium, should be used.

12 - PRECAUTIONS AND WARNINGS

- Chloramphenicol Antimicrobial Supplement 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.
- Supplements containing antibiotics must be handled with appropriate protection. Consult the Safety Data Sheet before use.
- The supplement and the medium base shall be used in association according to the directions described above. Apply Good Manufacturing Practice in the preparation process of plated media.
- Chloramphenicol Antimicrobial Supplement is sterilized by membrane filtration.
- Be careful when opening the metal ring to avoid injury.
- 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 Chloramphenicol Antimicrobial Supplement 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. Once the vial has been opened and the lyophilised product has been reconstituted, the resulting solution should be used immediately. Before use, examine the lyophilized and reconstituted product and discard if there are obvious signs of deterioration (e.g., contamination, atypical colour or other abnormal characteristics). The user is responsible for the manufacturing and quality control processes of prepared media and the validation of their shelf life, according to the type (plates/tubes) and the applied storage conditions (temperature and packaging).

14 – REFERENCES

1. ISO 21527-1:2008 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 1: Colony count technique in products with water activity greater than 0,95
2. ISO 21527-2:2008 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 2: Colony count technique in products with water activity less than or equal to 0,95
3. Jarvis B. Comparison of an improved rose bengal-chlortetracycline agar with other media for the selective isolation and enumeration of moulds and yeasts in foods J Appl Bacteriol . 1973 Dec;36(4):723-7.
4. ISO16212:2017. Cosmetics -Microbiology -Enumeration of yeast and mould
5. MacFaddin JF. Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria. Baltimore: Williams & Wilkins; 1985.

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 2	Updated layout and content	2022/05

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

