



PRESTON ANTIMICROBIC SUPPLEMENT

Freeze-dried selective supplement

1 - INTENDED USE

Selective supplement for culture media intended for the isolation of *Campylobacter* spp.

2 - COMPOSITION - VIAL CONTENTS FOR 500 ML OF MEDIUM

Cycloheximide	50 mg
Rifampicin	5 mg
Trimethoprim	5 mg
Polymyxin B	2.500 U.I.

3 - PRINCIPLE OF THE METHOD AND EXPLANATION OF THE PROCEDURE

Preston Antimicrobial Supplement is a freeze-dried mixture of antimicrobial compounds prepared according to the formulation devised by Bolton and Robertson¹ and used for the preparation of Preston Agar and Preston Broth.

Polymyxin B is active against Gram-negative bacteria, trimethoprim mainly suppresses the growth of *Proteus* spp. and other Gram-negative bacteria, rifampicin is active against Gram-negative and Gram-positive bacteria and cycloheximide is as an antifungal compound.

4- DIRECTIONS

Reconstitute the content of one vial of Preston Antimicrobial Supplement with 2 mL of acetone/sterile distilled water (1:1) under aseptic conditions and mix gently to dissolve.

Preston Broth

Suspend 25 g of Nutrient Broth n° 2 (REF 401812) in 945 ml of purified water. Mix thoroughly and warm slightly if necessary to completely dissolve the powder. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 47-50°C and add 50 ml of lysed horse blood (REF 90HLX100) and the contents of two vials of Preston Antimicrobial Supplement. If required add also the contents of 2 vials of *Campylobacter* Growth Supplement (REF 4240021), reconstituted with 5 mL of sterile purified water. Mix well and distribute into sterile tubes or flasks.

Preston Agar

Suspend 40 g of *Campylobacter* Agar Base in 950 mL of cold purified water. Heat to boiling, stirring constantly, sterilize by autoclaving at 121°C for 15 minutes. Cool to 47-50°C and add 50 mL of lysed horse blood (REF 90HLX100) and the content of two vials of Preston Antimicrobial Supplement. Mix well and pour into sterile Petri dishes.

5 - PHYSICAL CHARACTERISTICS

Freeze-dried supplement appearance	short, red-brown pastille
Reconstituted supplement appearance	red, limpid

6 - MATERIALS PROVIDED - PACKAGING

Product	Type	REF	Pack
Preston Antimicrobial Supplement	Freeze-dried supplement	4240017	10 vials, each for 500 mL of medium

7 - MATERIALS REQUIRED BUT NOT PROVIDED

Medium base, lysed horse blood, autoclave, water-bath, incubator and laboratory equipment as required, sterile loops and swabs, Petri dishes and tubes, Erlenmeyer flasks. Materials for incubation in a microaerophilic atmosphere.

8 - SPECIMENS

Water, foods, animal feeding stuffs, environmental samples in the area of food production and food handling. Refer to applicable International Standards for the collection, transport, storage of samples and operate in accordance with good laboratory practice.

9 - TEST PROCEDURE, READING AND INTERPRETATION

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 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 the 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

- The 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.
- The supplement is classified as dangerous according to European rules; 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 production process of prepared media.
- The 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 the 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 Sheet of the product 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).

14 - REFERENCES

1. Bolton FJ, Robertson L. A selective medium for isolating *Campylobacter jejuni/coli*. J Clin Pathol 1982; 35:462

TABLE OF APPLICABLE SYMBOLS

 or  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.

