



## GLYCEROL

### Liquid supplement

#### 1 – INTENDED USE

Glycerol is used as an additive in several microbiological media formulations.

#### 2 - COMPOSITION - BOTTLE CONTENTS

Glycerol (glycerine) 100 mL

#### 3 - PRINCIPLE OF THE METHOD AND EXPLANATION OF THE PROCEDURE

Glycerol, also called glycerine or glycerin, is a simple triol compound and has the chemical formula  $C_3H_8O_3$ . It is a water-soluble, colourless, odourless, viscous liquid that is sweet-tasting and non-toxic. It is used with different functions in various formulations of microbiological media: as source of carbon for microbial growth, as a cryoprotective agent, as humectant. In DG 18 Agar and in Wort Agar Base glycerol reduces the water activity of the medium. In Pseudomonas media it is a source of carbon for the growth and enhances pigment production. In Lowenstein-Jensen Medium it is a source of carbon and is favourable to the growth of the human type tubercle bacillus. Tryptic Soy Broth with 15 - 20% glycerol is used in the long-term frozen maintenance of bacterial stock cultures.

#### 4 - DIRECTIONS

Glycerol must be added to the following culture media prior to autoclaving:

DG18 Agar Base (401394)	220 g/L
DG 18 Chloramphenicol Agar (401394C)	220 g/L
Lowenstein-Jensen Medium Base (401635)	12 g/L
Motility Nitrate CP medium	1 g/L
Pseudomonas Agar Base (401960)	10 g/L
Pseudomonas Selective Agar (401963)	10 g/L
Pseudomonas Selective Broth (401964)	10 g/L
Pseudomonas Agar F (401961)	10 g/L
Pseudomonas Agar p (401962)	10 g/L
STAA Agar Base (402079)	15 g/L
Tryptic Soy Broth (402155)	150-200 g/L
Wort Agar Base (402203)	2.5 g/L

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

#### 5 – PHYSICAL CHARACTERISTICS

Appearance colourless liquid

#### 6 - MATERIALS PROVIDED - PACKAGING

Product	Type	REF	Pack
Glycerol	Liquid supplement	421015	100 mL

#### 7 - MATERIALS REQUIRED BUT NOT PROVIDED

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

#### 8 - TEST PROCEDURE

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

#### 9 - 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 the suggested quality control strains.

#### 10 - LIMITATIONS OF THE METHOD

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

#### 11 - PRECAUTIONS AND WARNINGS

- Glycerol 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.
- 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 Glycerol 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](http://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.

### 12 - STORAGE CONDITIONS AND SHELF LIFE

Upon receipt, store the product in the original package at 10-30°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 product and discard if there are obvious signs of deterioration (e.g., contamination, atypical colour or other abnormal characteristics).

#### TABLE OF APPLICABLE SYMBOLS

 <b>REF</b> or <b>REF</b> Catalogue number	 <b>LOT</b> 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.

