

## Buffer Solution pH 7

Diluent for detection and enumeration of microorganisms.

### TYPICAL FORMULA\* (per litre of purified water)

Peptone	1.0 g/l
Sodium Chloride	9.0 g/l
Polysorbate 80	1.0 ml/l
Final pH 7.0 ± 0.2 at 25°C	

\*Formula may be adjusted and/or supplemented as required to meet performance specifications

### DESCRIPTION

Buffer Solution pH 7 is used for dissolving, suspending and diluting test samples, including clinical specimens.

### PRINCIPLE

Peptone and sodium chloride maintains the viability of microorganisms. Polysorbate 80 (Tween® 80) is a surfactant which allows a better dispersion of the test sample. It may further act as neutralizing agent for disinfectants such as quaternary ammonium compounds, iodines and parabenes.

NOTE Buffer Solution pH 7 is not a culture medium. The minimal nutrient content does not allow significant growth of microorganisms.

### TECHNIQUE

Dissolve or dilute the product to be examined (usually a 1 in 10 dilution is prepared) in Buffer Solution pH 7.

Use the suspensions within 2 hours or within 24 h if stored at 2-8°C.

Subculture onto the non-selective agar medium intended for the enumeration of the target microorganisms, such as TSA, by pour plate, surface spread or membrane filtration method.

### INTERPRETATION OF RESULTS

Refer to the instructions for use of the agar medium used.

### STORAGE

Store at 10-25°C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

### WARNING AND PRECAUTIONS

**For In Vitro Diagnostic use. For professional use only.** Operators must be trained and have certain experience in the laboratory methods. Please read the instructions carefully before using this product. Reliability of assay results cannot be guaranteed if there are any deviations from the instructions in this document.

Consult the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

### DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

### REFERENCES

1. EN ISO 11133:2014+Amd1:2018+Amd2:2020. Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
2. European Pharmacopoeia 10th Ed. (2020) 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms.
3. United States Pharmacopoeia 42 NF 37 (2019) <62> Microbiological examination of non-sterile products: Test for specified microorganisms.
4. Japanese Pharmacopoeia 17th Ed. (2017) 4.05 Microbiological examination of non-sterile products: Test for specified microorganisms.
5. ISO 21149:2017. Cosmetics – Microbiology – Enumeration and detection of aerobic mesophilic bacteria.



**LIOFILCHEM® S.r.l.**

Via Scozia, Zona Ind.le - 64026, Roseto degli Abruzzi (TE) - ITALY  
Tel +39 0858930745 Fax +39 0858930330 www.liofilchem.com liofilchem@liofilchem.com



## PRODUCT SPECIFICATIONS

### NAME

Buffer Solution pH 7

### STORAGE

10-25°C

### pH OF THE MEDIUM

7.0 ± 0.2

### USE

Buffer Solution pH 7 is used for dissolving, suspending and diluting test samples

### SHELF LIFE

2 years

### QUALITY CONTROL

**Appearance:** Light amber, may have a slight precipitate

#### Expected Cultural Response

Inoculum: 10<sup>3</sup>-10<sup>4</sup> CFU

Incubation: 2 h / 22.5 ± 2.5°C

#### Microorganism

*Staphylococcus aureus*

ATCC® 6538, WDCM 00032

± 30% colonies of original count on TSA

*Pseudomonas aeruginosa*

ATCC® 9027, WDCM 00026

± 30% colonies of original count on TSA

*Candida albicans*

ATCC® 10231, WDCM 00054

± 30% colonies of original count on TSA








#### Specification

Please refer to the actual batch related Certificate of Analysis (CoA).

### PACKAGING

Ref. 401890      Bottle      6 x 100 ml

### TABLE OF SYMBOLS

<b>LOT</b> Batch code	<b>IVD</b> <i>In vitro</i> Diagnostic Medical Device	 Manufacturer	 Use by	 Fragile, handle with care
<b>REF</b> Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Caution, consult instructions for use	 Do not reuse



**LIOFILCHEM® S.r.l.**

Via Scozia, Zona Ind.le - 64026, Roseto degli Abruzzi (TE) - ITALY  
Tel +39 0858930745 Fax +39 0858930330 www.liofilchem.com liofilchem@liofilchem.com

