

TECHNICAL DATA SHEET

Article no. : 8644.0500

PEPTONE WATER, BUFFERED (EUR. PHARM.)

ALSO KNOWN AS

Buffered Sodium Chloride Peptone Solution pH 7,0

SPECIFICATION

Diluent for the homogenization of samples for the microbiological examination according to the European Pharmacopoeial Harmonised Method and ISO standard.

FORMULA * IN G/L

Peptone..... 1.00
Sodium chloride..... 4.30
Disodium phosphate (anhydrous)..... 5.77^(*1)
Potassium dihydrogen phosphate..... 3.60

Final pH 7,0 ±0,2 at 25 °C

(*1) Equivalent to 7,23 g of disodium hydrogen phosphate dihydrate.

*Adjusted and /or supplemented as required to meet performance criteria

DIRECTIONS

Dissolve 14,67 g of powder in 1 L of distilled water, heating if necessary. Add 1 to 10 mL of Polysorbate 80 or Polysorbate 20 depending on the type of food or product to be diluted. Homogenize and distribute into containers. Sterilize in the autoclave at 121°C for 15 minutes.

DESCRIPTION

This solution is recommended by the European Pharmacopoeia to dilute samples for microbiological examination. The quantity of emulsifying agent used will depend on the amount of fat in the sample being examined.



QUALITY CONTROL

Incubation Temperature: 30-35°C

Incubation Time: Rec. 24 h/ ≤ 5 d (fungi)

Inoculum: 50-100 CFU (Productivity) at T₀, 45 minutes and 1 h. (20-25°C); according to Eur. Pharm and ISO 11133.

Microorganism	Growth	Remarks
<i>Staphylococcus aureus</i> ATCC® 6538	Good	Recovery ±30% T ₀ in TSA
<i>Pseudomonas aeruginosa</i> ATCC® 9027	Good	Recovery ±30% T ₀ in TSA
<i>Candida albicans</i> ATCC® 10231	Good	Recovery ±30% T ₀ in SDA
<i>Escherichia coli</i> ATCC® 8739	Good	Recovery ±30% T ₀ in TSA
<i>Salmonella typhimurium</i> ATCC® 14028	Good	Recovery ±30% T ₀ in TSA
<i>Staphylococcus aureus</i> ATCC® 25923	Good	Recovery ±30% T ₀ in TSA
<i>Listeria monocytogenes</i> ATCC® 13932	Good	Recovery ±30% T ₀ in TSA
<i>Bacillus subtilis</i> ATCC® 6633	Good	Recovery ±30% T ₀ in TSA
<i>Aspergillus brasiliensis</i> ATCC® 16404	Good	Recovery ±30% T ₀ in SDA

REFERENCES

- COLIPA (1997) Guidelines on Microbial Quality Management (MQM). Brussels.
- EUROPEAN PHARMACOPOEIA 10.0 (2020) 10th ed. § 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms. Harmonised Method. EDQM. Council of Europe. Strasbourg.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- ISO 16212 Standard (2017) Cosmetics - Microbiology - Enumeration of yeast and mould.
- ISO 21149 Standard (2017) Cosmetics - Microbiology - Enumeration and detection of aerobic mesophilic bacteria.
- ISO 21150 Standard (2015) Cosmetics - Microbiology - Detection of *Escherichia coli*.
- ISO 22717 Standard (2015) Cosmetics - Microbiology - Detection of *Pseudomonas aeruginosa*.
- ISO 22718 Standard (2015) . Cosmetics - Microbiology - Detection of *Staphylococcus aureus*.
- USP 33 - NF 28 (2011) <62> Microbiological examination of non-sterile products: Test for specified microorganisms. Harmonised Method. USP Corp. Inc. Rockville. MD. USA.

STORAGE

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).

