



Product :  
BUFFERED PEPTONE WATER (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.....7,23  
Potassium phosphate.....3,56

Final pH 7,0 ±0,2 at 25°C

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

**Directions**

Dissolve 16,1 g of powder in 1 L of distilled water, heating if necessary. Add 1 to 10 mL of Polysorbate 80 (Art. No. TW0080) 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:** 35°C ±2,0**Incubation time:** Recovery 24 h**Inoculum:** 100-1000 CFU / tube (Productivity) at T<sub>0</sub>, 45 minutes and 1 h. (20-25°C) ; according to Eur. Pharm.

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

**References**

- COLIPA (1997) Guidelines on Microbial Quality Management (MQM). Brussels.
- EUROPEAN PHARMACOPOEIA 8.0 (2014) 8th ed. § 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms. Harmonised Method. EDQM. Council of Europe. Strasbourg.
- ISO 11133:2014. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- ISO 21149:2006 Cosmetics - Enumeration and detection of aerobic mesophilic bacteria.
- 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).

**Packaging**