

Sodium chloride peptone broth (buffered)

For the dilution of samples in the analysis of non-sterile products for microbial contaminants.

General Information

This medium complies with the recommendations of the harmonised method in the European Pharmacopeia 5.6 and the United States Pharmacopeia 29 (2006).

Mode of Action

The combination of phosphate buffer, sodium chloride and peptone increases the viability of sensitive microorganisms in particular.

Typical Composition (g/litre)

Potassium dihydrogen phosphate 3.6; di-sodium hydrogen phosphate dihydrate 7.2; sodium chloride 4.3; peptone from pepsin-digested meat 1.0.

pH: 7.0 ± 0.2 at 25 °C.

Preparation

Suspend in demineralized water to give a concentration of 16.1 g/litre, aliquot into smaller vessels if required and, if necessary, add 1-10 ml Tween® 20 or 80 per litre of culture medium. Autoclave for 15 minutes at 121 °C.

The medium is clear and yellowish.

Application and Evaluation

Samples for colony count and for the detection of specified microorganisms should be diluted according to EP and USP.

Incubation: 24 h at 35 °C aerobically.

Literature

European Pharmacopeia 5.5, Chapter 2.6.13 B (Harmonised Method), 2006
United States Pharmacopeia 29 - NF 24, Chapter 62, Microbial examination of nonsterile products: Tests for specified microorganisms, 2006

Ordering Information

Product	Merck Cat. No.	Pack size
Sodium chloride peptone broth (buffered)	1.10582.0500	500 g
Sodium chloride peptone broth (buffered)	1.10582.5000	5 kg
Tween® 20	8.22184.0500	500 ml
Tween® 80	8.22187.0500	500 ml

Quality control

Test strains	No decrease in colony count within 4 hours
Escherichia coli ATCC 8739	+
Staphylococcus aureus ATCC 6538-P	+