

PHARMACOPOEIA DILUENT

Buffered sodium chloride peptone solution according to European Pharmacopoeia

TYPICAL FORMULA (g/l)

Potassium Dihydrogen Phosphate	3.56
Disodium Hydrogen Phosphate Anhydrous	5.76
Sodium Chloride	4.30
Tryptone	1.00

DIRECTIONS FOR POWDERED MEDIUM

Suspend 14.6g in 1000ml of cold distilled water. Heat to dissolve, distribute and sterilise by autoclaving at 121°C for 15 minutes. If required add the suitable neutralising compounds as suggested below.

Final pH 7.0 ± 0.1

DESCRIPTION

Pharmacopoeia Diluent corresponds to the liquid medium recommended by EP 3rd Ed (Buffered sodium chloride peptone solution) as general-purpose diluent for microbiological analysis. To this basal medium several compounds may be added to neutralise the activity of disinfectants. The typical neutralising diluent recommended by EP has the following formulation:

Buffered sodium chloride peptone solution	1000 ml
Polysorbate (Tween TM) 80	30 g
Lecithin (egg)	3 g
Hystidine HCl	1 g

If required the concentration of Polysorbate 80 and lecithin may be increased or other neutralising compounds can be used according to the following recommendations:

Type of antimicrobial agent	In-activator	Concentration
Phenolics	Sodium lauryl sulphate	4 g/l
	Tween 80 + Lecithin	30 g/l + 3 g/l
	Egg yolk	5 ml/l – 50 ml/l
Organo - mercurals	Sodium thioglycolate	0,5 g/l – 5 g/l
Halogens	Sodium thiosulphate	5 g/l
Quaternary ammonium compounds	Egg yolk	5 ml/l – 50 ml/l
Aldheides	Saponin + cisteine HCl	3 % + 0,1 %

If a ready to use medium is required, see the technical sheet of EP Neutralising Diluent (ref. n° 5113952 -flasks, ref. n° 521395 -tubes).

TECHNIQUE

Homogenise the sample and/or prepare decimal dilutions of the sample using the diluent prepared as described. Leave at room temperature for 30-60 minutes. Inoculate the suitable culture media.

Storage

Dehydrated medium: 10-30°C

User prepared medium: 1 month at 2-8°C

REFERENCE

European Pharmacopoeia (EP) 3rd Edition, 2001 Supplement

PACKAGING

4013951	Pharmacopoeia Diluent	100 g (6.8 l)
4013952	Pharmacopoeia Diluent	500 g (34.2 l)
4013954	Pharmacopoeia Diluent	5 kg (342 l)