



BLR474K

Phosphate buffered saline, concentrate



Description

The product BLR474K is a concentrate made ready for use in histology and/or cytology by dilution to 10 times the volume. It is a phosphate buffered isotonic saline solution with a pH of 7.4 for use as a buffer solution by the professional user. The concentrate is supplied in boxes of 6 x 1 litre polyethylene (BLR474K.0001) bottles with screw cap.

Intended purpose

After dilution of the concentrate to a ready-to-use solution, use for storage and rinsing of biological cells and protein samples without affecting their activity and structure.

Handling

The concentrate must be colourless and must not be turbid, otherwise it has to be discarded. The contents of the 1-litre bottle must be transferred in full to a suitable container with a volume of 10 litres and then made up to 10 litres with demineralised water.

The container should be emptied and cleaned on a regular basis to make sure, that no microbial contamination occurs. For this purpose 0,1M NaOH or 70% Isopropanol can be taken. Do not use bleach. The cleaning agents should be removed by rinsing with de-ionized or distilled water. The container should be replaced after a maximum of two years latest, because of embrittlement of the PE- material.

When removing buffer, care must be taken to avoid contaminating the storage vessel (it is recommended to use a canister with a drain tap). Once removed, the solution must not be returned to the storage vessel. If turbidity or solids occur, the diluted solution must be discarded. The buffer is intended for single use and must not be reused.

Store the diluted solution at 15 - 25°C and do not use after the expiry date.

Storage

Store the unopened bottle in a dry place, avoiding direct sunlight, at 15 to 25°C. The shelf life is 2 years, see also the best before date on the label. The shelf life of BLR474K is 3 months after dilution, provided the storage conditions are complied with and the solution is handled properly.

Main components

Sodium chloride (NaCl)	87,8 g/L
Potassium chloride (KCl)	4,2 g/L
Sodium fluoride (NaF)	2,5 g/L
Sodium dihydrogen phosphate-Monohydrate ($\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$)	2,9 g/L
Di-Sodium hydrogenphosphate-Dihydrate ($\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O}$)	27,8 g/L

Specification

Parameter	Specification
Form	liquid
Colour	colourless
pH value (1:10 dilution)	7.3 – 7.5
Osmolality (1:10 dilution)	335 – 345 mOsmol/kg
Volume	1.000 ml
Shelf life of the concentrate	2 years from date of production



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