

Sodium Phosphate Buffer (NaPi), pH 6.5, 7.0, 7.2 and 7.4



Features

- Purity of chemicals minimum 99%
- Choice of three molar concentrations
- Wide choice of pH
- Exactly pre-weighed in pouches
- Dissolve and use in minutes

Product description

Medicago's Sodium Phosphate buffer is provided in different formulations in order to suit most biochemical and molecular biology applications. Choose a buffer with a pH and molarity that fits your laboratory procedures.

The NaPi buffer is supplied as exactly pre-weighed powder in sealed pouches giving two volumes, 1000 ml and 5000 ml. Dissolving the contents of one pouch in deionized water yields:

- 1) NaPi buffer 0.1 M or 1 M with pH 6.5 at 25°C.
- 2) NaPi buffer 0.1 M or 0.02 M with pH 7.0 at 25°C.
- 3) NaPi buffer 1 M with pH 7.2 at 25°C.
- 4) NaPi buffer 0.1 M or 1 M with pH 7.4 at 25°C.

Applications

- Multi-purpose buffer for many laboratory procedures

Directions for use

Empty one pouch of the NaPi buffer in a laboratory flask or beaker placed on a magnetic stirrer. Add 200 ml to 300 ml of deionized water for a 1000 ml pouch and 1000 ml for a 5000 ml pouch and stir the solution for a few minutes. Adjust the volume up to 1000 ml or 5000 ml, stir and the buffer solution is ready to use.

Shipping and storage

NaPi buffer is shipped at room temperature. Store the pouches in a dry place at room temperature. Shelf life is three years.

Specifications

Chemicals	Analytical grade
Format	Exactly pre-weighed powder mix
Concentration	1. 0.1 M or 1 M, pH 6.5 at 25°C 2. 0.1 M or 0.02 M, pH 7.0 at 25°C 3. 1 M, pH 7.2 at 25°C 4. 0.1 M or 1 M, pH 7.4 at 25°C
Volume	1000 ml and 5000 ml
pH	6.5 ± 0.05 at 25°C 7.0 ± 0.05 at 25°C 7.2 ± 0.05 at 25°C 7.4 ± 0.05 at 25°C
Shelf life	Three years after production date

Tips and hints

If the contents of the pouch is not properly dissolved, make sure:

- the water temperature is 25°C (do not exceed this temperature)
- the buffer solution is properly stirred.

Sterilization can be performed by filtration or autoclaving.

Filtrate the buffer solution through a 0.22 µm filter into a sterile flask or autoclave for 15 to 20 min. Keep the buffer solution at +4°C.

Certifications

Medicago's laboratories and manufacturing site in Uppsala are ISO 9001:2008 and ISO 13485:2003 certified. Each stage of the manufacturing process is controlled and monitored by stringent quality control procedures to guarantee the highest possible quality and lot-to-lot reproducibility.

