

# SMART BUFFERS

## 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.

