



# SMARTBUFFERS

## 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 300 ml of deionized water and stir for a couple of minutes. Adjust the volume up to 1000 ml or 5000 ml, stir until full dissolution and the buffer 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.

### 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.

### Specifications

|               |  |
|---------------|--|
| Chemicals     | Analytical grade   |
| Format        | Exactly pre-weighed powder mix   |
| Concentration | 1. 0.1 M or 1 M, pH 6.5 at 25°C<br>2. 0.1 M or 0.02 M, pH 7.0 at 25°C<br>3. 1 M, pH 7.2 at 25°C<br>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<br>7.0 ± 0.05 at 25°C<br>7.2 ± 0.05 at 25°C<br>7.4 ± 0.05 at 25°C   |
| Shelf life    | Three years after production date  |

Sterilization can be performed by filtration or autoclaving. Filter the buffer solution through a 0.22 µm filter into a sterile flask or autoclave for 15 to 20 min and keep at +4°C.

### Certifications

Medicago's laboratories and manufacturing site in Uppsala is ISO 9001:2015 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.



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### Ordering information

| Article no. | Product name                           | Pack size  | Solution vol. |
|-------------|--|------------|---------------|
| 12-9527-10  | Sodium Phosphate Buffer, 0.02 M pH 7.0 | 10 pouches | 1000 ml/pouch |
| 12-9528-10  | Sodium Phosphate Buffer, 0.02 M pH 7.0 | 10 pouches | 5000 ml/pouch |
| 12-9529-10  | Sodium Phosphate Buffer, 0.1 M pH 6.5  | 10 pouches | 1000 ml/pouch |
| 12-9530-10  | Sodium Phosphate Buffer, 0.1 M pH 7.0  | 10 pouches | 1000 ml/pouch |
| 12-9531-10  | Sodium Phosphate Buffer, 0.1 M pH 7.4  | 10 pouches | 1000 ml/pouch |
| 12-9184-10  | Sodium Phosphate Buffer, 1 M pH 6.5    | 10 pouches | 1000 ml/pouch |
| 12-9185-10  | Sodium Phosphate Buffer, 1 M pH 7.2    | 10 pouches | 1000 ml/pouch |

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