**Phosphate Buffered Saline (PBS)**

**Products Description**

*Phosphate Buffered Saline Buffer (PBS) is a classic solution with physiological buffering range*

Composition of PBS (1X) is 137mM Sodium Chloride, 10mM phosphate, 2.7mM Potassium Chloride; pH is 7.4

<table>
<thead>
<tr>
<th>Name: Phosphate Buffered Saline Buffer (PBS 1X)</th>
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<tbody>
<tr>
<td><strong>Cat.number:</strong> UP68723A, 1 pack (10L of PBS 1x)</td>
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<tr>
<td>UP68723B, 10 packs</td>
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<tr>
<td><strong>Form:</strong> powder, pack</td>
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<tr>
<td>1 pack (9.88g), when dissolved with distilled water, makes 1L of 10X PBS, or 10L of 1X PBS</td>
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<tr>
<td><strong>Use:</strong> Reconstitute PBS 1x with distilled water:</td>
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<tr>
<td>When reconstituted with water, PBS1x final concentrations are 137mM Sodium Chloride, 10mM phosphate, 2.7mM Potassium Chloride; pH is 7.4</td>
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<table>
<thead>
<tr>
<th>Name: Concentrated Phosphate Buffered Saline Buffer solutions (conc.PBS)</th>
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<tbody>
<tr>
<td><strong>Cat.number:</strong> N1376A, 500 ml of 20X (10L of PBS 1x)</td>
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<tr>
<td>N1376B, 1 L of 20X (10L of PBS 1x)</td>
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<td>0.2 um filtered, Sterilised by autoclaving at 121°C.</td>
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<tr>
<td><strong>Form:</strong> Clear liquid</td>
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<tr>
<td><strong>Use:</strong> Dilute 1:20 with distilled water.</td>
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<tr>
<td>500ml 20X makes 10L of PBS 1x</td>
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**Applications:**

PBS is used in various laboratory techniques, including immunodetection, microarraying, biochemistry, purification, cell culture. It can be supplemented by a variety of additives (chelatants such as EDTA, detergents such a Tween20, proteins such as BSA, bacteriostatic such as azide, protease inhibitors such as AEBSF,…). See related products below for other PBS products including additives.

*Note: Phosphate buffer should not be used in assays where competition for phosphate groups, or complex formation with a metal ion is essential for the enzyme activation. Phosphate ions will inhibit carboxypeptidase, carboxylase, urease, muscle diaminase, formase and phosphoglucomutase.*

Contact your local distributor

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uptima@interchim.com
Directions for use

Use ultrapure water to reconstitute PBS 1x from provided powder pack, tablet and concentrated solutions.
Note: If preparing sterile PBS from PBS 20X #N1376A, the added water should also be sterile (or choose the ready to use PBS 1x #N13522)

● Preparing PBS 1X from powder packs UP68723A:
Pour 1 pack (9.88g) in a clean recipient.
Mix well with 10L of dist.water until the solution is clear and without particulates.
Note: one also may prepare 10X PBS mother solution (1pack with 1L dist.water).

● Preparing PBS 1X from concentrate solutions N1376A(20X) and N14012(10x):
Pipette the desired quantity into a clean recipient.
Add distilled water to 1X concentration,
Mix well until the solution is clear.

● Preparing PBS 1X from tablets UP307157:
Put 1 tab in a clean recipient.
Dissolve in 100ml dist.water until the solution is clear and without particulates.

● Use PBS 1X rapidly, or store in the fridge.
Avoid preparing larger volume that required for the same day or few days: this might affect your buffer quality.

Other information

Related products

* Other PBS buffers: * PBS pH7.4, tablets for 100-200-500-1000ml (AWJG80)
* PBS pH7.4 sterile solutions (GS3574)
* PBS for saturation in immunodetection techniques (BSA or Tween or Milk PBS blends)
PBS with Non-Fat Powdered Milk 3%, pH 7.5 , powder packs #GS4180
PBS with BSA 1%, pH 7.5, powder packs #GS4190
PBS with Tween® 0.05%, pH 7.5 , powder packs #GS4250 (BB8210) (687230)
PBS with Calcium and magnesium: Dulbecco's PBS buffer: D-PBS 20X #RJ226A

* Other Buffers See pH BC002b, including Balanced Saline Solutions, Saline media,…
e.g. Hanks' Balanced Saline Solutions (HBSS) (NIJ661) ; Dulbecco's Modified Eagle Media #63426A;…

* Additives:
Detergents; Tween20 (158740), TritonX100 (521121), CHAPS (33351A), …
Bacteriostatics: Na Azide (081125), … Chelatants: EDTA (036290)…
Protease inhibitors: AEBSF (401071), PMFS,… Reducing agents: DTT (054721), TCEP (242214), …

*Other buffers: TBS buffer (Tris Buffer Saline) (74004A), buffers for genomics

Ordering information

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06
Order on-line or Contact your local distributor.

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