



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

Name:	Phosphate Buffered Saline Buffer	(PBS 1X)
Cat.number:	UP68723A, 1 pack (10L of PBS 1x) UP68723B, 10 packs	UP30715, 100 tabs (each tab makes 100ml) other format in TechSheet <u>AWJGB0</u> .
Form:	powder, pack 1 pack (9.88g), when dissolved with distilled water, makes 1L of 10X PBS, or 10L of 1X PBS	tabs 1 tablet, when dissolved with distilled water, will give 100 ml of 1X PBS
Use:	Reconstitute PBS 1x with distilled water: When reconstituted with water, PBS1x final concentrations are 137mM Sodium Chloride, 10mM phosphate, 2.7mM Potassium Chloride; pH is 7.4	

Name:	Concentrated Phosphate Buffered	Saline Buffer solutions (conc.PBS)
	PBS Buffer 20X	PBS Buffer 10X
Cat.number:	N1376A , 500 ml of 20X (10L of PBS 1x) N1376B , 1 L of 20X (10L of PBS 1x) 0.2 um filtered, Sterilised by autoclaving at 121°C.	N14012, 1 L of 10X (10L of PBS 1x) N14013, 4 L of 10X (40L of PBS 1x)
Form:	Clear liquid	Clear liquid
Use:	Dilute 1:20 with distilled water. 500ml 20X makes 10L of PBS 1x	Dilute 1:10 with distilled. 1L 1L 10X makes 10L of PBS 1x

Storage: Room temperature

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.



FT-68723A

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 (AWJGBO)

* PBS pH7.4, sterile solutions (N13522, 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) (NJI661); Dulbecco's Modified Eagle Media #63426A;...

* Additives:

Detergents; Tween20 (<u>158740</u>), TritonX100 (<u>521121</u>), CHAPS (<u>33351A</u>), ...

Bacteriostatics: Na Azide (081125), ... Chelatants: EDTA (036290)...

Protease inhibitors: AEBSF (401071), PMFS,... Reducing agents: DTT (054721), TCEP (242214), ...

Ordering information

For any information, please ask: Biosciences / Interchim; Hotline: +33(0)4 70 03 88 55 Order on-line or Contact your local distributor.

Disclaimer: Materials from Uptima are sold **for research use only**, and are not intended for food, drug, household, or cosmetic uses.

Uptima is not liable for any damage resulting from handling or contact with this product.

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