

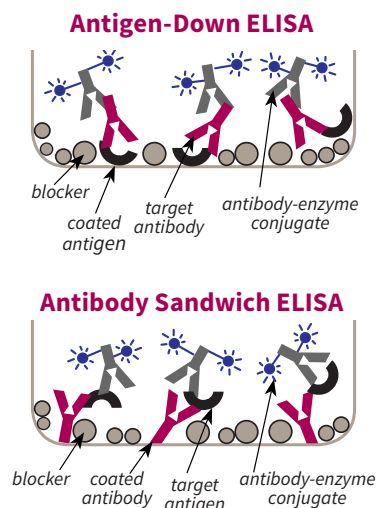
# Phosphate Buffered Saline, 10X

## An optimal formulation of buffered salts for isotonic pH-neutral buffering.

Phosphate Buffered Saline, 10X (PBS), when diluted 10-fold to the 1X formula, is a non-toxic, isotonic solution that can be used as a general diluent in a wide variety of laboratory techniques. It may be used as a balanced salt solution to create custom-made ELISA buffers or for other applications in the laboratory, such as washing cells, protein dialysis, or to run Protein A or Protein G columns.

In ELISA applications, PBS can be used as a general diluent for all stages of the ELISA procedure, including plate coating and sample dilution. Phosphate Buffered Saline is virtually a universal, pH-neutral formulation of buffers and salts. It is designed to effectively balance pH and ionic strength to avoid the disruption of binding interactions in antibody-sandwich and antigen-down ELISAs. When coating ELISA plates, PBS can be used to dilute the coated protein before immobilizing it onto the solid surface during the adsorption process.

ICT's PBS does not contain potassium, calcium, or magnesium, nor does it contain any preservatives that may interfere with binding interactions. PBS does not contain any antimicrobial agents and is not sterile. PBS is supplied as a 10X liquid concentrate with a two-year shelf-life. Its shelf-life at 1X is less than one week at room temperature; this can be extended by sterile filtration. To use PBS, simply add 1 part 10X PBS to 9 parts deionized water and mix. No pH adjustment is required.



## PHOSPHATE BUFFERED SALINE, 10X

Size	Catalog#
100 mL	6157
500 mL	6158
1 L	6159
10 L	6160

### INSTRUCTIONS:

1. Mix Phosphate Buffered Saline, 10X (PBS) to dissolve any precipitates in the bottle; avoid bubbles. If necessary, gently warm the concentrated buffer until all crystals are in solution.
2. Dilute PBS 1:10 by adding 1 part PBS to 9 parts deionized water. For example, add 100 mL PBS to 900 mL diH<sub>2</sub>O.
3. Add any preservatives, if desired, as PBS does not contain any antimicrobial agents. For example, to create a solution of 0.1% sodium azide as a column storage buffer, add 0.1 gm NaN<sub>3</sub> to 100 mL 1X PBS.
4. To use as an isotonic, pH-neutral buffering base, simply add other reagents if desired.

For more ELISA protocols and information, please visit [www.immunochemistry.com](http://www.immunochemistry.com).

### SPECIFICATIONS:

- Clear liquid
- 10X concentrate
- pH 7.2-7.6 at 1X

### STORAGE:

- 2 years at room temperature
- May be stored at 2-8°C

### SAFETY & USAGE:

- SDS available at [immunochemistry.com](http://immunochemistry.com)
- Not for human or drug use
- For research use only

*Build a better assay with ELISA Solutions from ImmunoChemistry Technologies.*



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