

1x phosphate buffered saline recipe

The recipe below is used to prepare a 1 L 1x phosphate buffered saline solution.

Reagent	Weight / Volume
Sodium chloride	8 grams
Potassium chloride	0.2 grams
Disodium phosphate (Na_2HPO_4)	1.44 grams
Monopotassium phosphate (KH_2PO_4)	0.24 grams
MilliQ water	Up to 1 L

How to make a 1 L 1x PBS solution

1. Weigh out 8.00 g sodium chloride, 0.20 g potassium chloride, 1.44 g disodium phosphate and 0.24 g monopotassium phosphate and add to a 1 L Duran bottle.
2. Measure out 800 mL of MilliQ water and add to the Duran bottle.
3. Dissolve the reagents by adding a magnetic flea into the bottle and placing on a magnetic stirrer.
4. Adjust the pH to 7.4 with hydrochloric acid (HCl).
5. Top up the solution to 1 L with MilliQ water.
6. To sterilise, autoclave the solution on a liquid cycle (20 min at 15 psi).

Storage of 1x PBS solution

Store 1x PBS solution at room temperature (+15°C - +25°C).