

Xu lab protocol and instructions

Phosphate Buffer (PB) or Phosphate Buffered Saline (PBS)

(1) Make solutions A and B first (using a 1-liter volumetric flask or a 500 ml volumetric flask)

Stock Solution A (0.2 M Sodium Phosphate Monobasic):

27.6 g $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$ (FW: 137.99g/mol) in 1L ddH₂O OR 13.8g/0.5L ddH₂O

Stir Well

Stock Solution B (0.2 M Sodium Phosphate Dibasic):

53.62g $\text{Na}_2\text{HPO}_4 \cdot 7\text{H}_2\text{O}$ (FW: 268.07) in 1L ddH₂O OR 26.81g/0.5L ddH₂O

Stir well

(2) To make 0.1 M Phosphate Buffer, pH 7.4 (1L PB)

1 part Solution A (100ml)

4 parts Solution B (400ml)

5 parts ddH₂O (500ml)

(0.02 M Sodium Phosphate Monobasic, 0.08 M Sodium Phosphate Dibasic)

10x PBS (.1M PBS)

To make 0.1 M Phosphate Buffered Saline (**10x PBS**) // (0.02 M Sodium Phosphate Monobasic, 0.08 M Sodium Phosphate Dibasic, 9% NaCl)

Mix thoroughly with the appropriate proportions

For 1000ml:

Solution A: 1 part 100mL

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Solution B: 4 parts 400mL

9g NaCl/100ml 90g/1000mL

About 500 ml ddH₂O: Top off/fill up with ddH₂O to the desired volume (1000 ml) in a 1-liter volumetric flask

1x PBS

Mix thoroughly with the appropriate proportions:

For 1000 ml:

10x PBS: 1 part 100mL

ddH₂O: 9 parts 900mL

(0.01 M PB, 0.9% NaCl)

30 % Sucrose in PBS

Mix thoroughly with the appropriate proportions (500ml or adjust to appropriate proportions):

500ml of 1x PBS

150 grams of Sucrose

Put the solution in 1-liter bottle