



Jul 23, 2020

# 4% Formaldehyde in .1M PB (FOR IMMUNO BRAINS) (1L)

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1 Works for me

This protocol is published without a DOI.

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## PROTOCOL CITATION

Molly Brennan, Olivier George 2020. 4% Formaldehyde in .1M PB (FOR IMMUNO BRAINS) (1L).

protocols.io

<https://protocols.io/view/4-formaldehyde-in-1m-pb-for-immuno-brains-1l-bivyke7w>

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## CREATED

Jul 22, 2020

## LAST MODIFIED

Jul 23, 2020

## PROTOCOL INTEGER ID

39576

### 1 .4M Phosphate buffer pH 7.4 (250mls)

21.7 g Na<sub>2</sub> HPO<sub>4</sub> (sodium phosphate dibasic-heptahydrous) [86.8 g]*~Make sure dibasic completely dissolves before adding monobasic!*2.6 g Na H<sub>2</sub> PO<sub>4</sub> (sodium phosphate monobasic-monohydrous) [10.4 g]Dissolve in 200 ml of distilled H<sub>2</sub>O [800 mls]

pH to 7.4

Bring to 250ml volume with distilled H<sub>2</sub>O

### 2 In separate 1000 ml volumetric flask:[2000ml]

2.250 ml 0.4 M phosphate buffer (pH=7.4) [500ml]

3.100 ml 37% formaldehyde [200mls]

4.Bring to 1L volume with distilled water (no need to re-pH) 2L]

5.Filter using side-arm flask (use glassware labeled 'paraform')

\*\*Please use gloves, protective eyewear and mask when working w/ formaldehyde.

Label and date 1L 4% Formaldehyde and put in plastic bottle marked  
"4% FORM IMMUNO".Put in black KOOB fridge (by -80 freezer).

### 3 0.15 M Saline Pre-fixative Rinse (1 L) [2L]

1. Add 9.0 g NaCl to 800 mL dH<sub>2</sub>O. [18g]
2. Add ~1000 units of heparin per 1L saline [2mls]
3. Stir until dissolved (good for 1 week).
4. Add dH<sub>2</sub>O to bring to volume.
5. Label and refrigerate