Buffered glutaraldehyde

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Abstract

Formulation for a phosphate-buffered 20% glutaraldehyde stock solution.

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Guidelines

Solution A	Solution B
Na_2HPO_4 1.414g in 50ml 0.02µm filtered mQ	NaH_2PO_4 1.058g in 50ml 0.02µm filtered mQ

Protocol

Step 1.
Prepare solution A and solution B as found in guidelines

Step 2.
Prepare the phosphate buffere by adding 15.25 ml solution A and 9.75 ml solution B in 25 ml 0.02 µm filtered mQ

NOTES
Bonnie Poulos 24 Jun 2015
= 50 ml buffer

Step 3.
Add 40 ml of 25% glutaraldehyde to 10 ml phosphate buffer for a 20% buffered glutaraldehyde solution

NOTES
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This is most often used for transmission electron microscopy so purchase a TEM-grade glutaraldehyde (from a vendor such as Ted Pella) for preparing this buffered reagent

Step 4.
Adjust pH to 7 with NaOH

Step 5.
Store this 20% buffered glutaraldehyde at 4 °C in the dark

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