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Preparation of 0.5L of phosphate buffer (pH=6.0)

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Protocol status: Working

We use this protocol and it's working

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Abstract

Original source of the protocol: WormBook Methods

http://www.wormbook.org/chapters/www_strainmaintain/strainmaintain.html

This protocol is for making pH=6.0 phosphate buffer, which is used in the preparation of worm media, like NGM (Nematode Growth Medium).

Materials

Monopotassium phosphate:

⊗ Potassium phosphate monobasic **Merck MilliporeSigma (Sigma-Aldrich) Catalog #795488-500G**

Dipotassium phosphate:

⊗ Potassium phosphate dibasic **Merck MilliporeSigma (Sigma-Aldrich) Catalog #P3786-500G**

Filter: Rapid-Flow Nalgene 0.2µm aPES membrane, ref: 564-0020


Vaccum pump: Fisher Brand, ref: FB70155

Troubleshooting




1 Add  54.2 g ± 0.5 of monopotassium phosphate¹ (KH_2PO_4) to a clean 0.5L bottle.

¹Also referred to as potassium phosphate monobasic

2 Add  17.8 g ± 0.2 of dipotassium phosphate² (K_2HPO_4) to the bottle.

²Also referred to as potassium phosphate dibasic

3 Measure  500 mL of milliQ water in a measuring cylinder, and add it to the bottle.

4 Shake the bottle vigorously until all crystals are dissolved. This can take a few minutes.

5 If this is the first time you prepare this solution, you can ensure that the pH is around 6 using pH paper or a pH-meter. We usually have a pH between 5.8 and 6.

6 Filter-sterilize.

7 Store on shelf.

We usually use it without problem for at least a year after preparation.