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

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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).

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MATERIALS TEXT

Monopotassium phosphate:

Potassium phosphate monobasic **Sigma**

Aldrich Catalog #795488-500G

Dipotassium phosphate:

Potassium phosphate dibasic **Sigma**

Aldrich Catalog #P3786-500G

Filter: Rapid-Flow Nalgene 0.2µm aPES membrane, ref: 564-0020
Vaccum pump: Fisher Brand, ref: FB70155

1 Add **54.2 g ±0.5** of monopotassium phosphate[1] (KH_2PO_4) to a clean 0.5L bottle.

[1]Also referred to as potassium phosphate monobasic

2 Add **17.8 g ±0.2** of dipotassium phosphate[2] (K_2HPO_4) to the bottle.

[2]Also 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.

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