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Preparation of 1M calcium chloride solution (CaCl2)

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Original source of the protocol: WormBook Methods
http://www.wormbook.org/chapters/www_strainmaintain/strainmaintain.html
This protocol is for making 1M calcium chloride solution, which is used in the preparation of worm media, like NGM (Nematode Growth Medium).

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ngm, worm, c.elegans, c elegans, elegans, caenorhabditis, media, medium, calcium chloride

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Calcium Chloride

Calcium chloride: Dihydrate **Sigma Catalog #C7902-500G**

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

Vaccum pump: Fisher Brand, ref: FB70155

1 Weigh **7.4 g ±0.05** of calcium chloride dihydrate ($CaCl_2 \cdot 2H_2O$).

2 Dissolve it in ~40 mL of milliQ water in a 100mL measuring cylinder.

3 Add a clean stirring magnet, and leave it on a stirrer until all crystals are dissolved.

4 Remove the stirring magnet: To prevent touching the solution, use another magnet from the outside of the measuring cylinder to slide the stirring magnet out of the cylinder.

5 Fill up to **50 mL** .

6 Filter-sterilize.

7 Store at 4°C.
We usually use it without problem for up to at least a year after preparation.

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