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Preparation of 1M magnesium sulfate solution (MgSO4)

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1 *Works for me* Share

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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 1M magnesium sulfate solution, which is used in the preparation of worm media, like NGM (Nematode Growth Medium).

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PARENT PROTOCOLS

In steps of

Preparation of M9 worm buffer

MATERIALS TEXT

Magnesium sulfate:

Magnesium Suflate Heptahydrate **Sigma**

Aldrich Catalog #M5921-500G

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

Vaccum pump: Fisher Brand, ref: FB70155

1 Weigh **12.3 g ±0.1** of magnesium sulfate heptahydrate ($MgSO_4 \cdot 7H_2O$), and add it to a 100 mL measuring cylinder.

2 Add ~40 mL of milliQ water.

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** with milliQ water

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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