

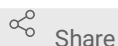


Jul 19, 2022

Preparation of 1M magnesium sulfate solution (MgSO₄)

Alid Al-Asmar¹, Alfonso Pérez Escudero¹, gabrielmadirolas¹¹CNRS, Université Paul Sabatier (Toulouse III)

1 Works for me



Share

dx.doi.org/10.17504/protocols.io.ewov1nmbygr2/v1

Perez-Escudero Lab

theapelab

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).

DOI

dx.doi.org/10.17504/protocols.io.ewov1nmbygr2/v1

PROTOCOL CITATION

Alid Al-Asmar, Alfonso Pérez Escudero, gabrielmadirolas 2022. Preparation of 1M magnesium sulfate solution (MgSO₄). **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.ewov1nmbygr2/v1>



LICENSE

————— This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

CREATED

Jun 11, 2022

LAST MODIFIED

Jul 19, 2022

PROTOCOL INTEGER ID

64369

PARENT PROTOCOLS

In steps of

Preparation of M9 worm buffer

MATERIALS TEXT



Magnesium sulfate:

 [Magnesium Sulfate Heptahydrate](#) **Sigma**

Aldrich Catalog #M5921-500G

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

Vacuum pump: Fisher Brand, ref: FB70155

- 1 Weigh  **12.3 g ±0.1** of magnesium sulfate heptahydrate ($\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$), 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.