




Oct 09, 2022

# Inductively coupled plasma mass spectrometry (ICP-MS)

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## ABSTRACT

Inductively coupled plasma mass spectrometry (ICP-MS) can be used to detect metal elements existing in samples. Because we are not capable of conducting ICP-MS on our own, we must seek help from our advisors. This protocol is a general description of our actions.

## DOI

[dx.doi.org/10.17504/protocols.io.x54v9dj2pg3e/v1](https://dx.doi.org/10.17504/protocols.io.x54v9dj2pg3e/v1)

## PROTOCOL CITATION

An.Huang 2022. Inductively coupled plasma mass spectrometry (ICP-MS).  
**protocols.io**  
<https://dx.doi.org/10.17504/protocols.io.x54v9dj2pg3e/v1>



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#### CREATED

Oct 07, 2022

#### LAST MODIFIED

Oct 09, 2022

#### PROTOCOL INTEGER ID

71022

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- 1 Filter all samples to be tested using 0.22µm syringe filters.

Samples are obtained by microwave digestion.



Microwave digestion for microbes  
by **An.Huang**

Keep at least 2mL samples after filtration.

- 2 (Optional) Dilute the samples to 0-20ppb using nitric acid (2%) if it contains too much desired elements more than the measuring range of equipment.
- 3 Asking an assistant for help in conducting ICP-MS. Obtain a standardized curve before starting to measure the samples.