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Murashige and Skoog (MS) agar



Forked from [Murashige and Skoog \(MS\) medium](#)

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External link: https://en.wikipedia.org/wiki/Murashige_and_Skoog_medium

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Protocol status: Working

We use this protocol and it's working

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Abstract

Murashige and Skoog medium (or **MSO** or **MSO** (*MS-zero*)) is a plant growth medium used in the laboratories for cultivation of plant cell culture. MSO was invented by plant scientists Toshio Murashige and Folke K. Skoog in 1962 during Murashige's search for a new plant growth regulator. A number behind the letters MS is used to indicate the sucrose concentration of the medium. For example, MS0 contains no sucrose and MS20 contains 20 g/l sucrose. Along with its modifications, it is the most commonly used medium in plant tissue culture experiments in laboratory.^[1]

Source:




http://cshprotocols.cshlp.org/content/2010/2/pdb.rec12142.full?text_only=true

Guidelines

Derivatives of MS medium can be made through the addition of sucrose, both 1% (w/v) and 2% (w/v) are commonly used.

Troubleshooting



- 1 Add Murashige and Skoog Basal Salt medium to a 1L flask  4.33 g
- 2 Add dH₂O  800 mL
- 3 Adjust the pH to 5.7 using 2 N Potassium hydroxide KOH
- 4 Add dH₂O up to 1L
- 5 Add  7 g of Bacto Agar to flask and autoclave