Murashige and Skoog (MS) medium

Steven Burgess

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, MSO 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 laboratorium. [1]

Source:

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

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Guidelines

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

Protocol

Step 1.

Murashige and Skoog basal medium

■ AMOUNT

4 g Additional info:

Step 2.

dH₂O

■ AMOUNT

800 ml Additional info:

Step 3.

2 N Potassium hydroxide

KOH

NOTES

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Adjust pH to 5.7

Step 4.

 dH_2O

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Add up to 1L