

Product Information Sheet

M407

Murashige & Skoog (MS) Modified Basal Salt Mixture (No Nitrogen, Phosphate, or Potassium)

Properties

Form:	Fine to Fluffy Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	0.61 g/L
Storage Temp:	2-6°
Storage Temp of Stock Solution:	Preparation of concentrated solutions is not recommended as insoluble precipitates may form.
Other Notes:	Contains the macro- and micronutrients as described by Murashige and Skoog (1962) with the following exceptions: No Ammonium Nitrate, Potassium Nitrate, or Potassium Phosphate Monobasic. pH = 3.8-4.8

Formula (mg/L)

Boric Acid	6.2	Magnesium Sulfate, Anhydrous	180.7
Calcium Chloride, Anhydrous	332.2	Manganese Sulfate•H ₂ O	16.9
Cobalt Chloride•6H ₂ O	0.025	Molybdic Acid (Sodium Salt)• 2H ₂ O	0.25
Cupric Sulfate•5H ₂ O	0.025	Potassium Iodide	0.83
Na ₂ EDTA•2H ₂ O	37.26	Zinc Sulfate•7H ₂ O	8.6
Ferrous Sulfate•7H ₂ O	27.8		

Application Notes

Plant Tissue Culture Tested

Plant species: Numerous, especially herbaceous.

This medium was developed to provide researchers with a base medium when determining the optimum nitrogen, potassium, and phosphorus levels.

References

Murashige, T and F Skoog. 1962. A revised medium for rapid growth and bioassays with tobacco tissue cultures. *Physiol. Plant.* 15: 473-497.

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