

# **Product Information Sheet**

M407

# Murashige & Skoog (MS) Modified Basal Salt Mixture (No Nitrogen or Phosphate and trace 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:	2-8°
Storage Temp of	Preparation of concentrated solutions is not recommended as insoluble
Stock Solution:	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
Calcium Chloride, Anhydrous	332.2
Cobalt Chloride•6H <sub>2</sub> O	0.025
Cupric Sulfate•5H <sub>2</sub> O	0.025
Na <sub>2</sub> EDTA•2H <sub>2</sub> O	37.26
Ferrous Sulfate•7H <sub>2</sub> O	27.8

Magnesium Sulfate, Anhydrous	180.7
Manganese Sulfate•H <sub>2</sub> O	16.9
Molybdic Acid (Sodium Salt)•2H <sub>2</sub> O	0.25
Potassium Iodide	0.83
Zinc Sulfate•7H <sub>2</sub> O	8.6

# **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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