



Product Information Sheet

M499 Murashige & Skoog (MS) Modified Basal Salt Mixture

Synonym: MS Modified Salts, Contains FeNa-EDTA

Properties

Form: Fine to Fluffy Powder
Appearance: White to Yellow Powder
Application: Plant Tissue Culture
Solubility: Water
Typical Working Concentration: 4.30 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) except for the replacement of Ferrous Sulfate and Disodium EDTA with Ferric Sodium EDTA.
pH = 4.25 – 5.25

Formula (mg/L)

Ammonium Nitrate	1650
Boric Acid	6.2
Calcium Chloride, Anhydrous	333
Cobalt Chloride•6H ₂ O	0.025
Cupric Sulfate•5H ₂ O	0.025
Ferric Sodium EDTA	36.7
Magnesium Sulfate, Anhydrous	181

Manganese Sulfate•H ₂ O	16.9
Molybdc Acid (Sodium Salt)• 2H ₂ O	0.25
Potassium Iodide	0.83
Potassium Nitrate	1900
Potassium Phosphate, Monobasic	170
Zinc Sulfate•7H ₂ O	8.6

Application Notes

Plant Tissue Culture Tested

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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