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•$6H_2O$	0.025
Cupric Sulfate•$5H_2O$	0.025
Ferric Sodium EDTA	36.7
Magnesium Sulfate, Anhydrous	181

Manganese Sulfate•H_2O	16.9
Molybdic Acid (Sodium Salt)• $2H_2O$	0.25
Potassium Iodide	0.83
Potassium Nitrate	1900
Potassium Phosphate, Monobasic	170
Zinc Sulfate•$7H_2O$	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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