



Product Information Sheet

M504 Murashige & Skoog (MS) Modified Basal Salt Mixture Finer & Nagasawa Modification

Properties

Form:	Fine to Fluffy Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	4.61 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: Contains 1.6x Potassium Nitrate and 0.5x Ammonium Nitrate; Ferrous Sulfate and Disodium EDTA is replaced with Ferric Sodium EDTA.

Formula (mg/L)

Ammonium Nitrate	825	Manganese Sulfate•H ₂ O	16.9
Boric Acid	6.2	Molybdcic Acid (Sodium Salt)• 2H ₂ O	0.25
Calcium Chloride, Anhydrous	332.2	Potassium Iodide	0.83
Cobalt Chloride•6H ₂ O	0.025	Potassium Nitrate	3030
Cupric Sulfate•5H ₂ O	0.025	Potassium Phosphate, Monobasic	170
Ferric Sodium EDTA	36.7	Zinc Sulfate•7H ₂ O	8.6
Magnesium Sulfate, Anhydrous	180.54		

Application Notes

Plant Tissue Culture Tested
Plant species: Soybean

References

Finer JJ, and A Nagasawa. 1988. Development of an embryogenic suspension culture of soybean (*Glycine max* Merrill.). *Plant Cell Tissue Org Cult* 15: 125-136.
Murashige, T and F Skoog. 1962. A revised medium for rapid growth and bioassays with tobacco tissue cultures. *Physiol. Plant.* 15: 473-497.

Revised 3/2007

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