



Product Information Sheet

M508 Murashige Modified Fern Multiplication Basal Medium

Properties

Form:	Fine to Fluffy Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	4.66 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) and the vitamins described by Linsmaier and Skoog (1965). Also contains (mg/L): 255 Sodium Phosphate Monobasic, 2.0 Kinetin, 0.1 NAA, and Ferric Sodium EDTA in place of Ferrous Sulfate and Disodium 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
Sodium Phosphate, Monobasic	255
Zinc Sulfate•7H ₂ O	8.6
Kinetin	2.0
myo-Inositol	100
α-Naphthaleneacetic Acid	0.1
Thiamine•HCl	0.4

Application Notes

Plant Tissue Culture Tested
Plant species: Ferns

References

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

PhytoTechnology Laboratories, LLC

P.O. Box 12205; Shawnee Mission, KS 66282-2205
Phone: 1-888-749-8682 or 913-341-5343; Fax: 1-888-449-8682 or 913-341-5442
Web Site: www.phytotechlab.com © 2007 PhytoTechnology Laboratories, LLC



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Linsmaier, EM and F Skoog. 1965. Organic growth factor requirements of tobacco tissue cultures. *Physiol. Plant.* 18: 100-127.

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