Product Information Sheet

M702
Murashige & Skoog (MS) Modified Basal Medium

Properties

Form:	Fine to Fluffy Powder
Appearance:	White to Off-white Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	34.69 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). Modified with the addition of (mg/L): 80 Adenine Hemisulfate, 148 Sodium Phosphate, 30.0 2iP, 0.3 IAA, 30,000 sucrose and 0.4 Thiamine in place of MS vitamins.

Formula (mg/L)

Ammonium Nitrate	1650
Boric Acid	6.2
Calcium Chloride, Anhydrous	332.2
Cobalt Chloride•6H_2O	0.025
Cupric Sulfate•5H_2O	0.025
Na_2EDTA•2H_2O	37.26
Ferrous Sulfate	27.8
Magnesium Sulfate, Anhydrous	180.7
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
Sodium Phosphate Monobasic	148
Zinc Sulfate•7H_2O	8.6
Adenine Hemisulfate	80
6-γ,γ-Dimethylallylaminopurine (2iP)	30
Indole-3-acetic Acid	0.3
myo-Inositol	100
Sucrose	30,000
Thiamine•HCl	0.4

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.

Revised 3/2006

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