Product Information Sheet

M401
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:	34.44 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 and vitamins as described by Murashige and Skoog (1962); Modified with the addition of (mg/L): 1.0 BA & 0.1 NAA. Also contains 30 g/L Sucrose.

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•2H2O	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
Zinc Sulfate•$7H_2O$	8.6
6-Benzylaminopurine (BA)	1.0
Glycine	2
myo-Inositol	100
α-Naphthaleneacetic Acid	0.1
Nicotinic Acid (Free Acid)	0.5
Pyridoxine•HCl	0.5
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.

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