Product Information Sheet

M419
MG Basal Salt Mixture
Modified Murashige & Skoog/ Gamborg Basal Salt Mixture

Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	1.88 g/L
Storage Temp:	2 – 6° C
Storage Temp of Stock Solution:	Preparation of concentrated solutions is not recommended as insoluble precipitates may form.
Other Notes:	Contains the macronutrients as described by Murashige and Skoog (1962) and the micronutrients as described by Gamborg et al. (1968)

Formula (mg/L)

Ammonium Sulfate	33.5
Boric Acid	2.3
Calcium Chloride, Anhydrous	111.36
Cobalt Chloride•$6H_2O$	0.0125
Cupric Sulfate•$5H_2O$	0.0125
Na_2 EDTA•$2H_2O$	18.64
Ferrous Sulfate•$7H_2O$	13.9
Magnesium Sulfate, Anhydrous	75.7
Manganese Sulfate•H_2O	6.7

Molybdic Acid (Sodium Salt)•$2H_2O$	0.125
Potassium Iodide	0.4
Potassium Nitrate	1100
Potassium Phosphate, Monobasic	42.5
Sodium Nitrate	437.8
Sodium Phosphate Monobasic	32.6
Zinc Sulfate•$7H_2O$	2.7

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.

Gamborg, OL, RA Miller, K Ojima. 1968. Nutrient requirements of suspension cultures of soybean root cells. Exp. Cell Research 50: 151-158.

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