

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	Molybdic Acid (Sodium Salt)•2H ₂ O	0.125
Boric Acid	2.3	Potassium Iodide	0.4
Calcium Chloride, Anhydrous	111.36	Potassium Nitrate	1100
Cobalt Chloride•6H ₂ O	0.0125	Potassium Phosphate, Monobasic	42.5
Cupric Sulfate•5H ₂ O	0.0125	Sodium Nitrate	437.8
Na ₂ EDTA•2H ₂ O	18.64	Sodium Phosphate Monobasic	32.6
Ferrous Sulfate•7H ₂ O	13.9	Zinc Sulfate•7H ₂ O	2.7
Magnesium Sulfate, Anhydrous	75.7		
Manganese Sulfate•H ₂ O	6.7		

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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