Product Information Sheet

M509
Murashige Modified Gerbera Multiplication Basal Medium

Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	4.72 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 macro- and micronutrients as described by Murashige and Skoog (1962) and modified vitamins. Also contains (mg/L): 85 Sodium Phosphate Monobasic, 80 Adenine Hemisulfate, 10.0 Kinetin, 0.5 IAA, 100 L-Tyrosine, and Ferric Sodium EDTA in place of Ferrous Sulfate and Disodium EDTA.

Formula (mg/L)

Ammonium Nitrate	1650
Boric Acid	6.2
Calcium Chloride, Anhydrous	333
Cobalt Chloride•$6H_2O$	0.025
Cupric Sulfate•$5H_2O$	0.025
Ferric Sodium EDTA	36.7
Magnesium Sulfate, Anhydrous	181
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	85
Zinc Sulfate•$7H_2O$	8.6
Adenine Hemisulfate	80
Kinetin	10.0
Indoleacetic Acid	0.5
Myo-Inositol	100
Nicotinic Acid (Free Acid)	10.0
Pyridoxine•HCl	1.0
Thiamine•HCl	30
L-Tyrosine	100

Application Notes
Plant Tissue Culture Tested. Plant species: Gerbera Daisies

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

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

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