Product Information Sheet

M519
Murashige & Skoog (MS) Basal Medium w/ Vitamins

Synonym: MS Medium

Properties

Form:	Fine to Fluffy Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	4.43 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). pH = 3.5-4.5

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•7H_2O	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
Glycine (Free Base)	2
myo-Inositol	100
Nicotinic Acid (Free Acid)	0.5
Pyridoxine•HCl	0.5
Thiamine•HCl	0.1

Application Notes

Plant Tissue Culture Tested
Plant species: This medium is used for a numerous species.

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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