



## Product Information Sheet

# M5542 Murashige & Skoog (MS) Basal Medium, van der Salm Modification

### Properties

Form:	Fine Powder
Appearance:	Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	4.46 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- & micronutrients and vitamins as described by Murashige and Skoog (1962) with the exception of FeEDDHA added as the iron source as described by van der Salm (1996). pH = 3.5-4.5

### Formula (mg/L)

Ammonium Nitrate	1650
Boric Acid	6.2
Calcium Chloride, Anhydrous	332.2
Cobalt Chloride•6H <sub>2</sub> O	0.025
Cupric Sulfate•5H <sub>2</sub> O	0.025
FeEDDHA	96.0
Magnesium Sulfate, Anhydrous	180.7
Manganese Sulfate•H <sub>2</sub> O	16.9
Molybdic Acid (Sodium Salt)• 2H <sub>2</sub> O	0.25

Potassium Iodide	0.83
Potassium Nitrate	1900
Potassium Phosphate, Monobasic	170
Zinc Sulfate•7H <sub>2</sub> O	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 basal medium is used for 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  
van der Salm, TPM, CJG van der Toorn, R Bouwer, CH Hanisch ten Cate, and HJM Dons. 1996. Somatic embryogenesis and shoot regeneration from excised adventitious roots of the rootstock *Rosa hybrida* L. 'Moneyway'. *Plant Cell Rep.* 15:522-526.

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