



Product Information Sheet

M530 **Murashige & Skoog (MS)** **Basal Medium w/ Vitamins** **Buffered with MES**

Synonym: Modified MS Medium

Properties

Form: Fine Powder
Appearance: White to Yellow
Application: Plant Tissue Culture
Solubility: Soluble in Water
Typical Working Concentration: 4.93 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: Buffered with MES. Contains the macro- and micronutrients and vitamins as described by Murashige and Skoog (1962).

Formula (mg/L)

Ammonium Nitrate	1650
Boric Acid	6.2
Calcium Chloride, Anhydrous	332.2
Cobalt Chloride•6H ₂ O	0.025
Cupric Sulfate•5H ₂ O	0.025
Na ₂ EDTA•2H ₂ O	37.26
Ferrous Sulfate•7H ₂ O	27.8
Magnesium Sulfate, Anhydrous	180.7
Manganese Sulfate•H ₂ O	16.9
Molybdic Acid (Sodium Salt)• 2H ₂ O	0.25
Potassium Iodide	0.83

Potassium Nitrate	1900
Potassium Phosphate, Monobasic	170
Zinc Sulfate•7H ₂ O	8.6
Glycine (Free Base)	2
MES	500
myo-Inositol	100
Nicotinic Acid (Free Acid)	0.5
Pyridoxine•HCl	0.5
Thiamine•HCl	0.1

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.

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