



Product Information Sheet

M5525 Murashige & Tucker Medium

Properties

Form: Fine to Fluffy Powder
Appearance: White to Yellow Powder
Application: Plant Tissue Culture
Solubility: Water
Typical Working Concentration: 4.46 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 and vitamins as described by Murashige and Tucker (1969).
pH = 3.5-4.5

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
myo-Inositol	100
Nicotinic Acid (Free Acid)	5
Pyridoxine•HCl	10
Thiamine•HCl	10

Application Notes

Plant Tissue Culture Tested

Plant species: This medium is used for Citrus species.

References

Murashige, T and Tucker DPH. 1969. Proceedings 1st International Citrus Symposium (1969), Vol 3, University California, pp 1155-1161.

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