

M531
Murashige & Skoog (MS)
Modified Basal Salt Mixture
(No Nitrogen)

Properties

Form:	Fine to Powder
Appearance:	White to Yellow
Application:	Plant Tissue Culture
Solubility:	Soluble in water at pH 4.0
Typical Working Concentration:	0.78 g/L
Storage Temp:	2-8°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) with the following exceptions: No Ammonium Nitrate or Potassium Nitrate.

Formula (mg/L)

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 Phosphate, Monobasic	170
Zinc Sulfate•7H ₂ O	8.6

Application Notes

Plant Tissue Culture Tested

Nitrogen must be supplemented to avoid nitrogen deficiency.

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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