Product Information Sheet

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

Properties

Form:	Fine to Fluffy Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	0.78 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 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•$6H_2O$	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 Phosphate, Monobasic	170
Zinc Sulfate•$7H_2O$	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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