

Product Information Sheet

M550

Murashige & Skoog (MS) Modified Medium Arabidopsis Culture Medium

Properties

Form:	Fine to Fluffy Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	24.44 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) and modified vitamins. Also contains (mg/L): 2.0 2,4-D, 0.05 Kinetin, and sucrose

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
Molybdc 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
2,4-Dichlorophenoxyacetic Acid	2.0
Kinetin	0.05
myo-Inositol	100
Nicotinic Acid (Free Acid)	1.0
Pyridoxine•HCl	1.0
Sucrose	20,000
Thiamine•HCl	10.0

Application Notes

Plant Tissue Culture Tested

Plant species: *Arabidopsis thaliana*

This medium was developed for the culture of Arabidopsis callus and cell suspension cultures.

References

Murashige, T and F Skoog. 1962. A revised medium for rapid growth and bio-assays with tobacco tissue cultures. *Physiologia Plantarum*. 15: 473-497.

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