



Product Information Sheet

M535 **Murashige & Skoog (MS)** **Modified Basal Medium**

Properties

Form:	Fine to Fluffy Powder
Appearance:	White to Off-white Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	4.51 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 the vitamins described by Linsmaier and Skoog (1965). Also contains 80 mg/L Adenine Hemisulfate. pH = 3.25 – 4.25

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	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
Adenine Hemisulfate	80
myo-Inositol	100
Thiamine•HCl	0.4

Application Notes

Plant Tissue Culture Tested

Plant species: Spathiphyllum, ferns, *Ficus* spp

This medium is also used for the micropropagation of numerous additional tropical foliage plants.

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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Linsmaier, EM and F Skoog. 1965. Organic growth factor requirements of tobacco tissue cultures. *Physiol. Plant.* 18: 100-127.

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