

### Product Information Sheet

### M701

## Murashige & Skoog (MS) Modified Basal Medium

Synonym: Murashige Begonia Multiplication Medium

#### Properties

Form:	Fine to Fluffy Powder
Appearance:	White to Off-white Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	4.44 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) with the following exception: contains Ferric Sodium EDTA in place of Disodium EDTA and Ferrous Sulfate. Modified with the addition of (mg/L): 10.0 2iP, 1.0 IAA, and 0.4 Thiamine in place of MS vitamins.

#### Formula (mg/L)

Ammonium Nitrate	1650
Boric Acid	6.2
Calcium Chloride, Anhydrous	333
Cobalt Chloride•6H <sub>2</sub> O	0.025
Cupric Sulfate•5H <sub>2</sub> O	0.025
Ferric Sodium EDTA	36.7
Magnesium Sulfate, Anhydrous	181
Manganese Sulfate•H <sub>2</sub> O	16.9
Molybdcic Acid (Sodium Salt)•2H <sub>2</sub> O	0.25

Potassium Iodide	0.83
Potassium Nitrate	1900
Potassium Phosphate Monobasic	170
Zinc Sulfate•7H <sub>2</sub> O	8.6
Adenine Hemisulfate	30
6-γ,γ-Dimethylallylaminopurine (2iP)	10
Indole-3-acetic Acid	1
myo-Inositol	100
Thiamine•HCl	0.4

#### Application Notes

Plant Tissue Culture Tested  
Plant species: Begonia

#### 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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