



## 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
Molybdic 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- $\gamma$ , $\gamma$ -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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#### PhytoTechnology Laboratories, LLC

P.O. Box 12205; Shawnee Mission, KS 66282-2205  
Phone: 1-888-749-8682 or 913-341-5343; Fax: 1-888-449-8682 or 913-341-5442  
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