

## M507 Murashige Cattleya Orchid Multiplication Medium

### Properties

Form:	Powder
Appearance:	White to Yellow powder
Application:	Orchid Culture
Solubility:	Water
Typical Working Concentration:	24.57 g/L
Storage Temp:	2 – 6° C
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). pH = 2.75 – 3.75

### 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
Citric Acid (Free Acid) Anhydrous	150
Glycine (Free Base)	2
Indole-3-acetic Acid	0.3
Indole-3-butyric Acid	1.75
myo-Inositol	100
α-Naphthaleneacetic Acid	1.75
Nicotinic Acid (Free Acid)	0.5
Pyridoxine•HCl	0.5
Sucrose	20,000
Thiamine•HCl	10

### Application Notes

Plant Tissue Culture Tested  
Plant species: Cattleya and other epiphytic orchids

### References

Murashige, T and F Skoog. 1962. A revised medium for rapid growth and bioassays with tobacco tissue cultures. *Physiol. Plant.* 15: 473-497.

Revised 1/2012