



## Product Information Sheet

### M555 Murashige & Skoog Modified Multiplication Medium

Synonym: Murashige & Skoog (MS) Shoot Multiplication Medium C

#### Properties

Form: Fine to Fluffy Powder  
Appearance: White to Yellow Powder  
Application: Plant Tissue Culture  
Solubility: Water  
Typical Working Concentration: 34.66 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 (mg/L): 148 Sodium Phosphate Monobasic, 80 Adenine Hemisulfate, 1.0 Kinetin, 0.1 NAA, and 30,000 Sucrose.

#### Formula (mg/L)

Ammonium Nitrate	1650
Boric Acid	6.2
Calcium Chloride, Anhydrous	332.2
Cobalt Chloride•6H <sub>2</sub> O	0.025
Cupric Sulfate•5H <sub>2</sub> O	0.025
Na <sub>2</sub> EDTA•2H <sub>2</sub> O	37.26
Ferrous Sulfate•7H <sub>2</sub> O	27.8
Magnesium Sulfate, Anhydrous	180.7
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
Sodium Phosphate, Monobasic	148
Zinc Sulfate•7H <sub>2</sub> O	8.6
Adenine Hemisulfate	80
Kinetin	1.0
myo-Inositol	100
NAA	0.1
Sucrose	30,000
Thiamine•HCl	0.4

#### Application Notes

Plant Tissue Culture Tested

#### 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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