



## Product Information Sheet

### **M5825** **Murashige & Skoog (MS)** **Basal Medium w/Sucrose & Gelzan**

Synonym: MS Medium w/ Vitamin, Sucrose & Gelzan

#### **Properties**

Form: Fine Powder  
Appearance: Tan Powder  
Application: Plant Tissue Culture  
Solubility: Partially Soluble Water  
Typical Working Concentration: 36.43 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 and vitamins as described by Murashige and Skoog (1962).  
Approximate unadjusted pH = 3.5-5.0

#### **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
Molybdc Acid (Sodium Salt)• 2H <sub>2</sub> O	0.25
Gelzan	2000.0

Potassium Iodide	0.83
Potassium Nitrate	1900
Potassium Phosphate, Monobasic	170
Zinc Sulfate•7H <sub>2</sub> O	8.6
Glycine (Free Base)	2
myo-Inositol	100
Nicotinic Acid (Free Acid)	0.5
Pyridoxine•HCl	0.5
Sucrose	30,000
Thiamine•HCl	0.1

#### **Application Notes**

Plant Tissue Culture Tested

Plant species: This medium is used for a numerous species.

#### **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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