

## Product Information Sheet

**M5707**

### Murashige & Skoog (MS) Medium w/ Vitamins, Sucrose, and Glucose

#### Properties

Form:	Fine Powder
Appearance:	White to Light Yellow
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	34.43 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 = 3.5-4.5

#### 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
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
D-Glucose	20,000
Glycine (Free Base)	2.0
myo-Inositol	100
Nicotinic Acid (Free Acid)	0.5
Pyridoxine•HCl	0.5
D -Sucrose	10,000
Thiamine•HCl	0.1

#### Application Notes

Plant Tissue Culture Tested

Plant species: This medium is used for 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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