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## **Product Information Sheet**

M290

# Murashige & Skoog (MS) Modified Basal Salt Mixture (1/2x Ammonium Nitrate, 1/2x Potassium Nitrate, and 1/2x Calcium Chloride)

#### **Properties**

	Fine to Fluffy Powder
Appearance:	White to Yellow
Application:	Plant Tissue Culture
Solubility:	Soluble in Water
Typical Working	2.39 g/L
Concentration:	2.39 g/L
Storage Temp:	2-6 ℃
Storage Temp of	Preparation of concentrated solutions is not recommended as insoluble
Stock Solution:	precipitates may form.
Other Notes:	Contains the macro- and micronutrients as described by Murashige and
	Skoog (1962) with the following exceptions: 1/2 Ammonium Nitrate, 1/2
	Potassium Nitrate, and ½ Calcium Chloride.
	pH = 3.5 - 4.5

## Formula (mg/L)

Ammonium Nitrate	825
Boric Acid	6.2
Calcium Chloride, Anhydrous	166.1
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	950
Potassium Phosphate, Monobasic	170
Zinc Sulfate•7H <sub>2</sub> O	8.6

## **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.

Revised 10/2011

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