



Product Information Sheet

M654 **Murashige & Skoog (MS)** **Macronutrient Stock Solution (10x)**

Properties

Form:	Liquid
Appearance:	Colorless, Clear
Application:	Plant Tissue Culture
Solubility:	Miscible with Water
Typical Working Concentration:	100 mL/L
Storage Temp:	2-6 °C
Other Notes:	Contains the macronutrients as described by Murashige and Skoog (1962). pH = 3.75 – 4.75

Formula (mg/L)

Ammonium Nitrate	16,500
Calcium Chloride, Anhydrous	3322
Magnesium Sulfate, Anhydrous	1807
Potassium Nitrate	19,000
Potassium Phosphate, Monobasic	1700

Application Notes

Plant Tissue Culture Tested

This product contains only macronutrients; micronutrients (e.g., M529) must be supplied for a complete basal salt mixture.

References

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

Rev. 10/2011 CC

PhytoTechnology Laboratories®

P.O. Box 12205; Shawnee Mission, KS 66282-2205

Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442

Web Site: www.phytotechlab.com

© 2011 PhytoTechnology Laboratories®