Product Information Sheet

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

Properties

Form:	Liquid
Appearance:	Colorless, Clear Liquid
Application:	Plant Tissue Culture
Solubility:	Miscible in Water
Typical Working Concentration:	100 mL/L
Storage Temp:	2-6°
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	1810
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.

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