

Product Information Sheet

M5501 Murashige & Skoog (MS) Basal Medium w/ Vitamins & Sucrose

Synonym: MS Medium w/ Sucrose

Properties

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| Form: | Fine Powder |
| Appearance: | White to Light Yellow Powder |
| Application: | Plant Tissue Culture |
| Solubility: | Water |
| Typical Working Concentration: | 34.43 g/L |
| Storage Temp: | 2-6° |
| 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)

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| Ammonium Nitrate | 1650 |
| Boric Acid | 6.2 |
| Calcium Chloride, Anhydrous | 332.2 |
| Cobalt Chloride•6H ₂ O | 0.025 |
| Cupric Sulfate•5H ₂ O | 0.025 |
| Na ₂ EDTA•2H ₂ O | 37.26 |
| Ferrous Sulfate•7H ₂ O | 27.8 |
| Magnesium Sulfate, Anhydrous | 180.7 |
| Manganese Sulfate•H ₂ O | 16.9 |
| Molybdc Acid (Sodium Salt)• 2H ₂ O | 0.25 |

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|--------------------------------|--------|
| Potassium Iodide | 0.83 |
| Potassium Nitrate | 1900 |
| Potassium Phosphate, Monobasic | 170 |
| Zinc Sulfate•7H ₂ 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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