

Product Information Sheet**M519****Murashige & Skoog (MS)
Basal Medium w/ Vitamins**

Synonym: MS Medium

Properties

Form: Fine to Fluffy Powder
 Appearance: White to Yellow Powder
 Application: Plant Tissue Culture
 Solubility: Water
 Typical Working Concentration: 4.43 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).
 pH = 3.5-4.5

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 |
| Molybdic 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 |
| 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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