



Product Information Sheet

M491 Murashige Modified Shoot Multiplication Basal Medium

Synonym: Murashige & Skoog (MS) Shoot Multiplication Medium A

Properties

Form: Fine to Fluffy Powder
Appearance: White to Yellow Powder
Application: Plant Tissue Culture
Solubility: Water
Typical Working Concentration: 4.68 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 as described by Murashige and Skoog (1962) and the vitamins described by Linsmaier and Skoog (1965). Also contains (mg/L): 170 Sodium Phosphate Monobasic, 80 Adenine Hemisulfate, 30.0 2iP, 0.3 IAA, and Ferric Sodium EDTA in place of Ferrous Sulfate and Disodium EDTA.

Formula (mg/L)

| | |
|--|-------|
| Ammonium Nitrate | 1650 |
| Boric Acid | 6.2 |
| Calcium Chloride, Anhydrous | 333 |
| Cobalt Chloride•6H ₂ O | 0.025 |
| Cupric Sulfate•5H ₂ O | 0.025 |
| Ferric Sodium EDTA | 36.7 |
| Magnesium Sulfate, Anhydrous | 181 |
| Manganese Sulfate•H ₂ O | 16.9 |
| Molybdic Acid (Sodium Salt)• 2H ₂ O | 0.25 |
| Potassium Iodide | 0.83 |

| | |
|--------------------------------------|------|
| Potassium Nitrate | 1900 |
| Potassium Phosphate, Monobasic | 170 |
| Sodium Phosphate, Monobasic | 170 |
| Zinc Sulfate•7H ₂ O | 8.6 |
| Adenine Hemisulfate | 80 |
| 6-γ,γ-Dimethylallylaminopurine (2iP) | 30.0 |
| Indoleacetic Acid | 0.3 |
| myo-Inositol | 100 |
| Thiamine•HCl | 0.4 |

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.

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Linsmaier, EM and F Skoog. 1965. Organic growth factor requirements of tobacco tissue cultures. *Physiol. Plant.* 18: 100-127.

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