## Product Information Sheet

# M462
# Musa (Banana) Multiplication Medium IITA Formulation*

### Properties

| | |
|---|---|
| Form: | Powder |
| Appearance: | White to Off-White |
| Application: | Plant Tissue Culture |
| Solubility: | Partially Soluble in Cold Water. Fully Soluble in Hot/Boiling Water. |
| Typical Working Concentration: | 36.36 g/L |
| Storage Temp: | 2-6°C |
| Storage Temp of Stock Solution: | Preparation of concentrated solutions is not recommended as insoluble precipitates may form. |
| Other Notes: | Formulation as described by Vuylsteke (1989).<br>pH = 3.75 – 4.75<br>*International Institute for Tropical Agriculture |

### Formula (mg/L)

| | |
|---|---|
| Ammonium Nitrate | 1650 |
| Boric Acid | 6.2 |
| Calcium Chloride, Anhydrous | 332.2 |
| Cobalt Chloride•$6H_2O$ | 0.025 |
| Cupric Sulfate•$5H_2O$ | 0.025 |
| $Na_2EDTA•2H_2O$ | 37.26 |
| Ferrous Sulfate | 27.85 |
| Magnesium Sulfate, Anhydrous | 180.74 |
| Manganese Sulfate•$H_2O$ | 16.9 |
| Molybdic Acid (Sodium Salt)•$2H_2O$ | 0.25 |
| Potassium Iodide | 0.83 |
| Potassium Nitrate | 1900 |

| | |
|---|---|
| Potassium Phosphate Monobasic | 170 |
| Zinc Sulfate•$7H_2O$ | 8.6 |
| L-Ascorbic Acid | 20 |
| 6-Benzylaminopurine (BA) | 4.5 |
| Gellan Gum – Biotech Grade | 2000 |
| Glycine | 2.0 |
| Indole-3-acetic Acid | 0.175 |
| Nicotinic Acid (Free Acid) | 0.5 |
| Pyridoxine•HCl | 0.5 |
| Sucrose | 30,000 |
| Thiamine•HCl | 0.4 |

### Application Notes
Plant Tissue Culture Tested

### References
Vuylsteke D (1989) Shoot-tip culture for the propagation, conservation, and exchange of *Musa* germplasm. Practical manuals for handling crop germplasm *in vitro*. 2. Rome: International Board for Plant Genetic Resources.

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