



## 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). pH = 3.75 – 4.75 *International Institute for Tropical Agriculture

### Formula (mg/L)

Ammonium Nitrate	1650
Boric Acid	6.2
Calcium Chloride, Anhydrous	332.2
Cobalt Chloride•6H <sub>2</sub> O	0.025
Cupric Sulfate•5H <sub>2</sub> O	0.025
Na <sub>2</sub> EDTA•2H <sub>2</sub> O	37.26
Ferrous Sulfate	27.85
Magnesium Sulfate, Anhydrous	180.74
Manganese Sulfate•H <sub>2</sub> O	16.9
Molybdic Acid (Sodium Salt)•2H <sub>2</sub> O	0.25
Potassium Iodide	0.83
Potassium Nitrate	1900

Potassium Phosphate Monobasic	170
Zinc Sulfate•7H <sub>2</sub> O	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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