



Musa (Banana) Multiplication Medium

Product ID: M462

Introduction

Description: Contains the macro- and micronutrients as described by Murashige and Skoog (1962). IITA formulation as described by Vuylsteke (1989) (International Institute for Tropical Agriculture).

Product Information

Solubility	Water (Partially)
Physical Form	Solid
Storage Temp.	2-6 °C
Grams of powder to prepare 1 Liter	36.36
Other Notes	Plant Tissue Culture Tested
UPC / SKU	M462



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 36.36 g/L

Concentration: Storage Temp: 2-6°C

Storage Temp of Preparation of concentrated solutions is not recommended as insoluble precipitates may

Stock Solution: 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.6H2O	0.025
Cupric Sulfate.5H2O	0.025
Na2EDTA.2H2O	37.26
Ferrous Sulfate	27.85
Magnesium Sulfate, Anhydrous	180.74
Manganese Sulfate.H2O	16.9
Molybdic Acid (Sodium Salt).2H2O	0.25
Potassium Iodide	0.83
Potassium Nitrate	1900
Potassium Phosphate Monobasic	170
Zinc Sulfate.7H2O	8.6
L-Ascorbic Acid	20
6-Benzylaminopurine (BA)	4.5
Gellan Gum - Biotech Grade	2000
Glycine	2
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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