

Lloyd & McCown Woody Plant Basal Medium with Vitamins

Product ID: **L449**

Introduction

Description: Contains the macro- and micronutrients and vitamins as described by Lloyd and McCown (1981). This medium was originally developed for the culture of shoot tips of Mt. Laurel. The medium has since become a standard for the culture of many woody plant species. Potassium Nitrate has been eliminated from this medium and replaced with Potassium Sulfate.

Product Information

Solubility	Water
Physical Form	Solid
Storage Temp.	2-6 °C
Grams of powder to prepare 1 Liter	2.41
Other Notes	Plant Tissue Culture Tested
UPC / SKU	L449



L449 Lloyd & McCown Woody Plant Basal Medium

Synonym: WPM

PROPERTIES

Form: Powder

Appearance: White to Yellow Powder

Application: Plant Tissue Culture

Solubility: Water

Typical Working Concentration: 2.41g/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: Contains the macro- and micronutrients and vitamins as described by Lloyd and McCown (1981). pH = 3.5 - 4.5

Formula (mg/L)	
Ammonium Nitrate	400
Boric Acid	6.2
Calcium Chloride, Anhydrous	72.5
Calcium Nitrate	386
Cupric Sulfate.5H ₂ O	0.25
Na ₂ EDTA.2H ₂ O	37.3
Ferrous Sulfate.7H ₂ O	27.85
Magnesium Sulfate, Anhydrous	180.7
Manganese Sulfate.H ₂ O	22.3
Molybdcic Acid (Sodium Salt) .2H ₂ O	0.25
Potassium Phosphate, Monobasic	170
Potassium Sulfate	990
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	1

Application Notes

Plant Tissue Culture Tested

Plant species: *Kalmia latifolia* (Mountain Laurel), *Rhododendron* spp. This medium was originally developed for the culture of shoot tips of Mt. Laurel. The medium has since become a standard for the culture of many woody plant species. Potassium nitrate has been eliminated from this medium and replaced with potassium sulfate. The levels of ammonium nitrate are ¼x compared to MS. Nitrogen is also provided by calcium nitrate.

References

Lloyd, G and BH McCown. 1981. Commercially-feasible micropropagation of Mountain Laurel, *Kalmia latifolia*, by shoot tip culture. Proc. Int. Plant Prop. Soc. 30:421-427.

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