DKW Medium with Vitamins

Product ID: **D2470**

Introduction

Description: Contains the macro-, micronutrients, and vitamins as described by Driver & Kuniyuki (1984) and McGranahan, et al (1987).

This medium was developed for the multiplication of shoots from nodal explants. The medium was supplemented with 4.5 µM BA and 5 nM IBA. Rooting the shoots was enhanced by dipping the basal ends of the shoots in 5 mM IBA prior to transferring to the greenhouse

Product Information

Solubility	Water
Physical Form	Solid
Storage Temp.	2-6 °C
Grams of powder to prepare 1 Liter	5.32
Other Notes	Plant Tissue Culture Tested
UPC / SKU	D2470

D2470 DKW Basal Medium with Vitamins

PROPERTIES

Form:	Powder
Appearance:	White to Yellow
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	5.32 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:	Contains the macro- and micronutrients and vitamins as described by Driver and Kuniyuki (1984) and corrected by McGranahan, et al. (1987). pH = 3.5 - 4.5

Formula (mg/L)	
Ammonium Nitrate	1416
Boric Acid	4.8
Calcium Chloride, Anhydrous	112.5
Calcium Nitrate	1367
Cupric Sulfate·5H2O	0.25
Na2 EDTA·2H2O	45.4
Ferrous Sulfate·7H2O	33.8
Magnesium Sulfate, Anhydrous	361.49
Manganese Sulfate·H2O	33.5
Molybdic Acid (Sodium Salt)·2H2O	0.39
Nickel Sulfate·6H2O	0.005
Potassium Phosphate, Monobasic	265
Potassium Sulfate	1559
Zinc Nitrate·6H2O	17
Myo-Inositol	100
Glycine	2
Nicotinic Acid	1
Thiamine Hydrochloride	2

Application Notes
Plant species: Northern California Walnut (Juglans hindsii)
This medium was developed for the multiplication of shoots from nodal explants. The medium was supplemented with 4.5 µM BA and 5 nM IBA. Rooting the shoots was enhanced by dipping the basal ends of the shoots in 5 mM IBA prior to transferring to the greenhouse.

References
Driver, J.A. and A.H. Kuniyuki. 1984. In vitro propagation of Paradox walnut rootstock.
HortScience 19:507-509.
McGranahan, GH, et al. 1962. In: Bonga, JB and DJ Durzan, Editors, Cell and Tissue Culture in Forestry. Martinus Nijhoff, Dordrecht, pp 261-271.

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