

## DKW Medium with Vitamins

Product ID: **D2470**

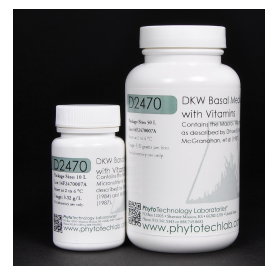
### Introduction

**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-5H <sub>2</sub> O	0.25
Na <sub>2</sub> EDTA-2H <sub>2</sub> O	45.4
Ferrous Sulfate-7H <sub>2</sub> O	33.8
Magnesium Sulfate, Anhydrous	361.49
Manganese Sulfate-H <sub>2</sub> O	33.5
Molybdc Acid (Sodium Salt)-2H <sub>2</sub> O	0.39
Nickel Sulfate-6H <sub>2</sub> O	0.005
Potassium Phosphate, Monobasic	265
Potassium Sulfate	1559
Zinc Nitrate-6H <sub>2</sub> O	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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ISO Certifications: [ISO 9001:2008 \(QMS\)](#) | [ISO 10002:2014](#)