

Product Information Sheet

D2470

DKW Basal Medium with Vitamins

Synonym: Driver and Kuniyuki Walnut 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 ₂ O	0.25
Na ₂ EDTA·2H ₂ O	45.4
Ferrous Sulfate·7H ₂ O	33.8
Magnesium Sulfate, Anhydrous	361.49
Manganese Sulfate·H ₂ O	33.5

Molybdic Acid (Sodium Salt)·2H ₂ O	0.39
Nickel Sulfate·6H ₂ O	0.005
Potassium Phosphate, Monobasic	265
Potassium Sulfate	1559
Zinc Nitrate·6H ₂ O	17
Myo-Inositol	100
Glycine	2.0
Nicotinic Acid	1.0
Thiamine Hydrochloride	2.0

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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D2470-Info

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