PhytoTechnology Laboratories®

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Product Information Sheet

D189 DKW Basal Medium

Synonym:	DKW Basal Salts w/ Sucrose;
	Driver and Kuniyuki Walnut medium

Properties

Form:	Powder
Appearance:	White to Yellow
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	35.22 g/L
Storage Temp:	2 – 6°C
• •	Preparation of concentrated solutions is not recommended as insoluble precipitates may form.
Other Notes:	Contains the macro- and micronutrients as described by Driver and Kuniyuki (1984) and McGranahan, et al. (1987). Also contains sucrose. 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
Na2 EDTA-2H ₂ O	45.4
Ferrous Sulfate-7H ₂ O	33.8
Magnesium Sulfate, Anhydrous	361.49

33.5
0.39
0.005
265
1559
17
30,000

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 μ M 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. 1987. In: Bonga, JB and DJ Durzan, Editors, Cell and Tissue Culture in Forestry. Martinus Nijhoff, Dordrecht, pp 261-271.

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