Product Information Sheet

D191
DKW Basal Medium

Synonym: DKW Basal Salts w/ Sucrose

Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	15.22 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 as described by Driver and Kuniyuki (1984) and McGranahan, et al. (1987). Does not contain vitamins, does contain 10 g/L 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·$5H_2O$	0.25
Na2 EDTA·$2H_2O$	45.4
Ferrous Sulfate·$7H_2O$	33.8
Magnesium Sulfate, Anhydrous	361.49

Manganese Sulfate·H_2O	33.5
Molybdic Acid (Sodium Salt)·$2H_2O$	0.39
Nickel Sulfate·$6H_2O$	0.005
Potassium Phosphate, Monobasic	265
Potassium Sulfate	1559
Zinc Nitrate·$6H_2O$	17
Sucrose	10,000

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 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, JA and AH Kuniyuki. 1984. HortSci 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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