



## Product Information Sheet

# C187 Coconut Powder

### Properties:

Form:	Powder
Appearance:	White to Off-white
Application:	Orchid Media Supplement
Solubility:	Suspension in Water at 25 g/L
Typical Working Concentration:	15-30 g/L
Storage Temp:	Room Temperature
Other Notes:	Plant Tissue Culture Tested

### Application Notes:

Coconut water has been shown to stimulate shoot proliferation for many plant species in tissue culture. It was first shown to stimulate growth in excised *Datura* embryos (Overbeek *et al.* 1941). It is most commonly used in orchid tissue culture as a medium supplement. It is known to contain amino acids, vitamins, and carbohydrates (Tulecke *et al.* 1961). Other analysis has shown that it contains gibberellins (Radley and Dear, 1958) *trans*-zeatin riboside (Letham 1974).

PhytoTechnology Laboratories® also carries Coconut Water, Product No. C195.

Please Note: While *PhytoTechnology Laboratories®* tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

### References:

- Letham DS (1974) Regulators of Cell Division in Plant Tissues. XX. The Cytokinins of Coconut Milk. *Physiol. Plant.* Vol. 32:66-70
- Overbeek, VJ, Conklin ME, and AF Blakeslee (1941) Factors in coconut milk essential for growth and development of very young *Datura* embryos. *Science* Vol. 94:350–351
- Radley M, and E Dear (1958) Occurrence of gibberellin-like substances in the coconut. *Nature*. Vol. 182 (4642):1098
- Tulecke W, Weinstein LH, Rutner A, and HJ Laurecot (1961) The biochemical composition of coconut water as related to its use in plant tissue culture. *Contrib. Boyce Thomps.* Vol. 21:115-128

### PhytoTechnology Laboratories®

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