



Product Information Sheet

C195 Coconut Water

Properties:

Form:	Liquid
Appearance:	Clear, Colorless to Yellow Tint
Application:	Plant Media Supplement
Solubility:	Miscible with Water
Typical Working Concentration:	25-150 mL/L
Storage Temp:	2-8°C
Other Notes:	Plant Tissue Culture Tested Sterile Filtered

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 Powder, Product No. C187

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®

P.O. Box 12205 • Shawnee Mission, KS • 66282-2205

Phone: 1-913-341-5343 or 1-888-749-8682 (U.S. Only) Fax: 1-913-341-5442 or 1-888-449-8682 (U.S. Only)

Web Site: www.phytotechlab.com

© 2017 *PhytoTechnology Laboratories®*