

# CERTIFICATE OF ANALYSIS

Product Description      CASEIN  
                                 ENZYMATIC HYDROLYSATE  
Product Number        C184  
Lot Number              08L18409  
Storage Temperature    Room Temperature  
CAS Number             65072-00-6

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	6.75
Physical Appearance Color*	2017-70 to 2024-70, 2018-60 to 2021-60, 2151-50 to 2155-50, HC-11, or HC-12	2020-70 Light Tan
Texture	Fine Powder	Fine Powder
Solution Appearance Clarity	Clear	Clear
Color	Colorless to Amber	Slight Yellow-Amber Tint
Average Time to Dissolve	Within 20 min	Passes
Insolubles	None	Passes
Amino Nitrogen	For Information Only	6.3%
Total Nitrogen	For Information Only	12.5%
Loss on Drying	For Information Only	3%

\* Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color Preview™).

## Biological Testing:

Test Concentration: 2.0 g/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultured lines with no morphological aberrations to plants	Cattleya orchid	Passes
	Dendrobium orchid	Passes

The material described in this certificate was manufactured in the United States of America and is animal-derived. This product is derived from bovine milk of Australian/New Zealand origin. It was hydrolyzed with a Porcine-derived enzyme of US origin.

**PhytoTechnology Laboratories, LLC provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTechnology Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.**

Recommended Shelf Life Date: November 2013



Gary Seckinger, Ph.D.



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### **PhytoTechnology Laboratories®**

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