

CERTIFICATE OF ANALYSIS

Product Description L-CYSTEINE, FREE BASE
Product Number C204
Lot Number 03K20406
Storage Temperature Room Temperature
Molecular Weight 121.16
Formula $C_3H_7NO_2S$
CAS Number 52-90-4

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	5.38
Physical Appearance Color*	RM-31 (Brilliant White) RM-1 to RM-3	RM-1 Off-White
Texture	Crystalline Powder	Crystalline Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 1 min	Within 1 min
Insolubles	None	Passes
Assay	Minimum 98.50%	99.8%

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

Biological Testing:

Test Concentration: 0.10 g/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultures	Boston Fern	Passes
	Hosta	Passes

The material described in this certificate was manufactured in the United State of America and is synthetic in nature. No animal or plant derived components were used in the manufacture of this product.

PhytoTechnology Laboratories® 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: October 2017



Gary Seckinger, Ph.D.



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Mailing Address: P.O. Box 12205, Shawnee Mission, KS 66282-2205
Phone: 1-888-749-8682 (1-913-341-5343 *Outside the USA & Canada*)
Fax: 1-888-449-8682 (1-913-341-5442 *Outside the USA & Canada*)
Visit our Web Site at <http://www.phytotechlab.com>



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