CERTIFICATE OF ANALYSIS

Product Description	FERRIC CITRATE
Product Number	F352
Lot Number	12H0352004
Storage Temperature	Room Temperature
Molecular Weight	244.95
Formula	$C_6H_5O_7Fe$
CAS Number	3522-50-7

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Boiling Water @ 10 mg/mL	Passes
pH	Under Development	2.2
Physical Appearance Color* Texture	 2130-10, 2130-20, 2114-10, 2165-10 to 2165-30 Fine Powder to Crystals	 2165-10 Brown w/Orange Tint and Black Specks Mixture of Fine Powder & Crystals
Solution Appearance Clarity Color	 Clear Yellow to Yellow-Green	 Clear Yellow
Average Time to Dissolve	Within 20 min	Passes
Insolubles	None	Passes
Fe3+ Content (as is)	16.5 to 20.0%	17.3%

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

Biological Testing:

Test Concentration: 100.0 mg/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	Tobacco callus	Passes
	Achimenes	Passes

The material described in this certificate is synthetic. No animal or plant-derived components were used in the manufacture of this product.

***Phyto*Technology 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. *Phyto*Technology 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: August 2020

Gary Seckinger, Ph.D.

***Phyto*Technology Laboratories®**
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

P*hyto*Technology Laboratories®
Dedicated to Growth

ISO 9001 REGISTERED FIRM

Created on 24 Sep 12 PN