CERTIFICATE OF ANALYSIS

Product Description	FERRIC SULFATE, HYDRATE
Product Number	F388
Lot Number	08F38802
Storage Temperature	Room Temperature
Molecular Weight	399.89 + x(18.01)
Formula	$Fe_2(SO_4)_3 \cdot xH_2O$
CAS Number	10028-22-5

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	2.3
Physical Appearance		
Color*	2020-50 to 2024-50 or 2021-40 to 2024-40	2020-50 Yellow
Texture	Fine to Coarse Powder	Coarse Powder
Solution Appearance		
Clarity	Clear to Slightly Hazy	Slightly Hazy
Color	Yellow to Yellow-Orange	Yellow-Orange
Average Time to Dissolve	For Information Only (Approx. 5 min)	5 min
Insolubles	None to Fine	Passes-Fine
Purity	Minimum 70.0%	73.8%

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

Biological Testing:

Test Concentration: 27.0 mg/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultures with no morphological aberrations to plants	Boston Fern	Passes
	Potato	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: June 2021

Gary Seckinger, Ph.D.

P*hyto*Technology Laboratories®
Dedicated to Growth

***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

ISO 9001 REGISTERED FIRM

Created on 17 July 2008
Revised on 29 June 2016 JN