

# CERTIFICATE OF ANALYSIS

|                     |  |
|---------------------|--|
| Product Description | FERRIC CHLORIDE, HEXAHYDRATE<br>IRON(III) CHLORIDE |
| Product Number      | F383   |
| Lot Number          | 07B38303   |
| Storage Temperature | Room Temperature                                   |
| Molecular Weight    | 270.32   |
| Formula             | FeCl <sub>3</sub> •6H <sub>2</sub> O               |
| CAS Number          | 10025-77-1   |

## Physiochemical Specifications:

| TEST                                     | SPECIFICATION  | RESULTS                         |
|--|--|---------------------------------|
| Solubility                               | Soluble in Water   | Soluble in Water                |
| pH (0.027 g/L)                           | Under Development  | 3.86                            |
| Physical Appearance<br>Color*            | 2019-40 (American Cheese)<br>2017-40 to 2021-40, 2155-10 to<br>2155-50, HC-7, or HC-10 | 2019-40 (American Cheese)       |
| Texture                                  | Crystals to Crystalline Powder   | Crystals                        |
| Solution Appearance<br>Clarity<br>Color* | Clear<br>2020-50 (Mellow Yellow)<br>2018-50 to 2021-50                                 | Clear<br>2021-50 (Yellow Lotus) |
| Average Time to Dissolve                 | Within 2 min   | Within 2 min                    |
| Precipitation Formation                  | None   | None                            |
| Assay                                    | 97.0 – 102.0%  | 98.0%                           |

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

## Biological Testing:

| 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—supported plant growth and/or shoot proliferation with no morphological aberrations to plants |
|  | Hosta           | Passes—supported plant growth and/or shoot proliferation with no morphological aberrations to plants |

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

**Phyto Technology 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. 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: February 2012

*Emily Burdick*

Quality Assurance Manager



PhytoTechnology  
Laboratories, LLC  
Dedicated to Growth

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