

CERTIFICATE OF ANALYSIS

Product Description RIFAMPICIN
 Product Number R501
 Lot Number 04L50107
 Storage Temperature -20-0° C
 Molecular Weight 822.94
 Formula C₄₃H₅₈N₄O₁₂
 CAS Number 13292-46-1

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water	Soluble in Water
pH (0.050 g/L)	Under Development	6.27
Physical Appearance Color*	2007-10 (Smoldering Red) 2004-10 to 2008-10 or 2003-20 to 2007-20	2005-20 (Hot Apple Spice)
Texture	Fine to Crystalline Powder	Fine, Crystalline Powder
Solution Appearance Clarity Color*	Clear 2016-20 (Citrus Orange) 2015-20 to 2018-20	Clear 2016-20 (Citrus Orange)
Average Time to Dissolve	Within 60 min	Within 96** min
Precipitation Formation	None	None
Assay	95.0 – 103.0%	100.5%
Heavy Metals	20 ppm	<20 ppm

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

** Product dissolve time was much greater than normal due to a few minute particles. This product may be used as a suspension and therefore will be released as a passing product. All other testing resulted as expected.

Biological Testing:

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
This product does not typically promote tissue growth; tissue necrosis or death is possible. This product is commonly used to control bacterial contamination. This product is tested with two or more clean plant cell lines with no bioburden added to the medium.	Cape Sundew	Passes— Supported minimal plant growth and/or shoot proliferation. Bacterial contamination was not present.
	Hosta	Passes— Supported minimal plant growth and/or shoot proliferation. Bacterial contamination was not present.

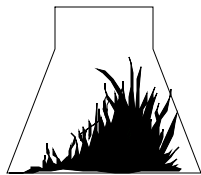
The material described in this certificate was manufactured in the United States of America and is of synthetic nature. No animal or plant components were used in the manufacture of this product.

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: November 2009

Emily Burdick

Quality Assurance Manager



PhytoTechnology
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Dedicated to Growth

PhytoTechnology Laboratories, LLC

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