CERTIFICATE OF ANALYSIS

Product Description	MEROPENEM TRIHYDRATE
Product Number	M5600
Lot Number	15H5600001
Molecular Weight	437.51
Formula	$C_{17}H_{25}N_3O_5S.3H2O$
CAS Number	119478-56-7
Storage Temperature	-20-0 ˚C

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 5mg/mL	Passes
pH	Under Development	4.9
Physical Appearance Color* Texture	 Under Development Under Development	 2146-70 Light Cream Fine Powder
Solution Appearance Color Clarity	 Under Development Under Development	 Clear Colorless
Average Time to Dissolve	Under Development	Within 10 min
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	>98%	99.30%

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

Biological Testing:

Test Concentration: 0.01 g/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	Hosta	Passes
	Asparagus	Passes

The material described in this certificate was manufactured in the United States of America and is synthetic in nature. 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: September 2018

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