CERTIFICATE OF ANALYSIS

Product Description	ORYZALIN 4-(DIPROPYLAMINO)-3,5-DINITROBENZENESULFONAMIDE
Product Number	O630
Lot Number	16F0630022
Storage Temperature	Room Temperature
Molecular Weight	346.36
Formula	$C_{12}H_{18}N_4O_6S$
CAS Number	19044-88-3

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in DMSO @ 10 mg/mL	Passes
Physical Appearance Color* Texture	 2011-20 to 2017-20 Crystalline Powder	 2015-20 Orange Crystalline Powder
Solution Appearance Clarity Color	 Clear Yellow to Dark Yellow	 Clear Dark Yellow
Average Time to Dissolve	For Information Only (Approx. 5 min)	5 min
Insolubles	None	Passes
Purity	Minimum 97.0%	97.05%
FTIR	Conforms to Structure	Passes

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

Biological Testing:

Test Concentration: 10.0 mg/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
This product may not promote tissue growth; tissue necrosis or death is possible. This product is tested for gross phytotoxic effects with two or more plant cell lines.	Kalanchoe	Passes
	Cape Primrose	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: July 2024

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

*Phyto*Technology Laboratories®
Dedicated to Growth

ISO 9001 REGISTERED FIRM

Created on 25 July 2016 JN