

CERTIFICATE OF ANALYSIS

Product Description	THIDIAZURON 1-PHENYL-3-(1,2,3-THIADIAZOL-5-YL)UREA; TDZ
Product Number	T438
Lot Number	08D43801
Storage Temperature	-20-0 °C
Molecular Weight	220.3
Formula	C ₉ H ₈ N ₄ OS
CAS Number	51707-55-2

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in DMSO at 10 mg/mL	Pass
Physical Appearance Color*	PM-1 to PM-4, PM-13, PM-19, or 2023-50	2023-50 Yellow
Texture	Fine Powder; may form Clumps	Fine Powder, w/ clumps
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	For Information Only (Approx. 1 min)	1 min
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	Minimum 95.0%	95.4 %
Loss on Drying	For Information Only	1.76 %

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

Biological Testing:


Test Concentration: 1 mg/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
	Tobacco callus	Passes

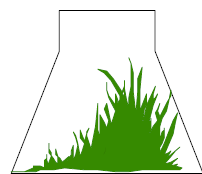
The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

PhytoTechnology 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. PhytoTechnology 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: December 2017



Gary Seckinger, Ph.D.



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Created on 26 Aug 08
Revised on 29 December 2015 JN