

CERTIFICATE OF ANALYSIS

Product Description TRIFLURALIN
 α,α,α -TRIFLUORO-2,6-DINITRO-N,N-DIPROPYL-P-TOLUIDINE
Product Number T828
Lot Number 15M0828003
Storage Temperature Room Temperature
Molecular Weight 335.28
Formula $C_{13}H_{16}F_3N_3O_4$
CAS Number 1582-09-8

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in DMSO @ 1 mg/mL	Passes
Physical Appearance Color*	2014-20 to 2018-20, 2014-30 to 2018-30, or 2014-10 to 2018-10	2015-20 Orange
Texture	Fine Powder to Crystals	Crystals
Solution Appearance Clarity Color	Clear Slight Yellow to Orange Tint	Clear Orange Tint
Average Time to Dissolve	For Information Only (Approx. 1 min)	1 min
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	Minimum 95%	95.01%

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

Biological Testing:

Test Concentration: 1.0 mg/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
This product may not promote tissue growth; tissue necrosis or death is possible. It is tested for gross phytotoxic effects with two or more plant cell lines at the concentration listed above.	Tobacco Callus	Passes
	Perilla Fantasy	Passes

The material described in this certificate is of synthetic nature. 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.

Date of Release: 04-January-2023

Recommended Shelf-Life Date: January 2028



David Hart
Technical Director