

# CERTIFICATE OF ANALYSIS

Product Description THIAMINE HYDROCHLORIDE  
Product Number T390  
Lot Number 14L0390010  
Storage Temperature Room Temperature  
Molecular Weight 337.27  
Formula  $C_{12}H_{17}ClN_4OS \cdot HCl$   
CAS Number 67-03-8

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	3.1
Physical Appearance Color* Texture	RM-1 to RM-3, RM-31 Fine Powder	RM-31 White Fine Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 1 min	Passes
Insolubles	None	Passes
Purity	Minimum 98.0%	99.4%
FTIR	Conforms to Structure	Passes
Water Content	For Information Only	1.4%

\* 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
Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultured lines with no morphological aberrations to plants	Begonia	Passes
	Boston Fern	Passes

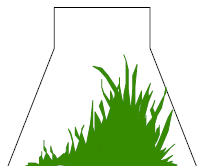
The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

**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 2022



Gary Seckinger, Ph.D.



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### PhytoTechnology Laboratories®

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