

# CERTIFICATE OF ANALYSIS

Product Description RIBOFLAVIN  
7,8-DIMETHYL-10-(D-RIBO-2,3,4,5-  
TETRAHYDROXPENTYL)-ISOALLOXAZINE; VITAMIN B<sub>2</sub>  
Product Number R779  
Lot Number 09G0779003  
Storage Temperature Room Temperature  
Molecular Weight 376.36  
Formula C<sub>17</sub>H<sub>20</sub>N<sub>4</sub>O<sub>6</sub>  
CAS Number 83-88-5

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in 1N KOH @ 1 mg/mL	Passes
Physical Appearance Color*	2018-20 to 2021-20 or 2018-30 to 2021-30	2018-20 Orange
Texture	Fine Powder, may form clumps	Fine Powder
Solution Appearance Clarity Color	Clear Light Yellow to Dark Yellow w/a Green Tint	Clear Dark Yellow w/ a Green Tint
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	Minimum 98.0%	99.1%

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

This material is derived from microbial fermentation and is highly purified and considered semi-synthetic. No animal- or plant-derived components were used in the manufacture of this product.

**PhytoTech Labs Inc. provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTech Labs Inc. 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: 28-May-2025

Recommended Shelf-Life Date: May 2030

Prepared by:   
Alex Lambert  
Lead Quality Control Laboratory Technician