

CERTIFICATE OF ANALYSIS

Product Description RIBOFLAVIN, USP GRADE
7,8-DIMETHYL-10-(D-RIBO-2,3,4,5-TETRAHYDROXYPENTYL)-
ISOALLOXAZINE; VITAMIN B₂
Product Number R779
Lot Number 09G0779004
Storage Temperature Room Temperature
Molecular Weight 376.37
Formula C₁₇H₂₀N₄O₆
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	2019-20 Orange
Texture	Fine Powder, may form clumps	Fine Powder
Solution Appearance Clarity Color	Clear Light Yellow to Dark Yellow with a Green Tint	Clear Yellow
Average Time to Dissolve	Within 3 min	Passes
Insolubles	None	Passes
Purity	98.0%	99.2%
Moisture (Loss on Drying)	For Information Only	0.6%

* 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	Tobacco callus	Passes
	Hosta	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: July 2017



Gary Seckinger, Ph.D.



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Created on 2 September 2009