

# CERTIFICATE OF ANALYSIS

Product Description	RIBOFLAVIN, USP GRADE 7,8-DIMETHYL-10-(D-RIBO-2,3,4,5-TETRAHYDROXPENTYL)- ISOALLOXAZINE; VITAMIN B <sub>2</sub>
Product Number	R779
Lot Number	07B77902
Storage Temperature	Room Temperature
Molecular Weight	376.37
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 KOH	Soluble in KOH
pH <sup>1</sup> (0.001 g/5 mL KOH)	Under Development	13.77
Physical Appearance Color*	2020-20 (Lemon Shine) 2018-20 to 2021-20 or 2018-30 to 2021-30	2019-30 (Sunflower)
Texture	Fine to Clumpy Powder	Fine Powder with Clumps
Solution Appearance Clarity Color*	Clear 2023-40 (Sunburst) 2023-10 to 2023-40 or 2024-10 to 2024-40	Clear 2024-30 (Citron)
Average Time to Dissolve	Within 1 min	Within 1 min
Precipitation Formation	None	None
Assay	98 – 101%	99.1%

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

<sup>1</sup> pH is dependent on the type and amount of solvent used.

## Biological Testing:

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultures	Syngonium	Passes—supported plant growth and/or shoot proliferation with no morphological aberrations to plants
	African Violet	Passes—supported plant growth and/or shoot proliferation with no morphological aberrations to plants

The material described in this certificate was manufactured in the United States of America and is synthetic or plant derived in nature. No animal components were used in the manufacture of this product.

**PhytoTechnology Laboratories, LLC 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: February 2012

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PhytoTechnology  
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Dedicated to Growth

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