



Certificate of Analysis

Riboflavin USP

Catalog Number: RB1001
Lot Number: 0718802
CAS Number: 83-88-5
Synonym(s): Lactoflavin, Vitamin B₂, Vitamin G
Molecular Formula: C₁₇H₂₀N₄O₆
Molecular Weight: 376.36
Storage: 15°C – 30°C
Date of Manufacture: May 19, 2017
Retest Date: May 18, 2020

| Test | Specification | Result |
|--|-------------------------------------|-------------|
| Appearance | Orange yellowish crystalline powder | Conforms |
| Assay (Dry Basis) | 98.0% to 102.0% | 98.7% |
| Identification | Positive | Conforms |
| Specific Rotation | -115.0° to -135.0° | -120.0° |
| Moisture (LOD) | ≤ 1.50% | 0.20% |
| Lumiflavin | ≤ 0.025 (440nm absorbance) | 0.008 |
| Heavy Metal | ≤ 10ppm | < 10ppm |
| Arsenic | ≤ 1ppm | < 1ppm |
| Cadmium | ≤ 1ppm | < 1ppm |
| Lead | ≤ 0.1ppm | < 0.1ppm |
| Mercury | ≤ 0.1ppm | < 0.1ppm |
| Residue on Ignition | ≤ 0.30% | 0.10% |
| Residual Solvents | To meet requirements | Conforms |
| Total Plate Count | ≤ 1,000cfu/g | < 300cfu/g |
| Yeast & Mold | ≤ 100cfu/g | < 25cfu/g |
| Coliforms | ≤ 10cfu/g | < 0cfu/g |
| <i>E. Coli</i> | Negative | Negative |
| <i>Salmonella</i> | Negative | Negative |
| <i>Staphylococcus Aureus</i> | Negative | Negative |
| Solubility (10mg/mL in 0.1M NaOH) | Clear yellow to orange solution | Conforms |
| Particle Size | 100% thru 60mesh | 100% passed |
| This lot meets the specifications for the USP 36 standard. | | |

Approved by:

John Grubb, PhD

Date: July 19, 2018



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