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Certificate of Analysis

Product Name Riboflavin-5"-phosphate monosodium

salt hydrate, USP grade

 Glentham Code
 GP0364

 CAS Number
 130-40-5

 EINECS
 204-988-6

 MDL Number
 MFCD00150992

 PubChem SID
 310279706

 Additional CAS
 6184-17-4 (·2H2O)

Batch Number 361GRI

Molecular Weight 514.36

 $\text{Molecular Formula} \qquad \qquad \text{C}_{17} \text{H}_{20} \text{N}_4 \text{NaO}_9 \text{P} \cdot \text{xH}_2 \text{O}$

Storage Temp. -20°C

Property	Specification	Batch 361GRI
Physical Description	Yellow to orange crystalline powder	Orange crystalline powder
Identification (IR)	To conform to standard	Conforms
Identification	A, B according to USP	Conforms
Solubility (1% in water)	Clear, orange to yellow solution	Clear, orange solution
pH (1% in water)	5.0 - 6.5	5.6
Specific Optical Rotation	+37.0 - +42.0 °	+39.2°
Residue on Ignition	≤ 25.0%	22.5%
Free Phosphate	≤ 1.0%	Conforms
Lumiflavin	Absorbance: ≤ 0.025	Conforms
Free Riboflavin	≤ 6.0%	1.1%
Riboflavin Diphosphosphates	≤ 6.0%	0.4%
Loss on Drying	≤ 7.5%	3.2%
Assay	73.0 - 79.0 % (C17H20N4O6, dried basis)	73.9%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version v1.1

Manufacture Date 2024-06-08

Re-Test Date 2034-07-26

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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