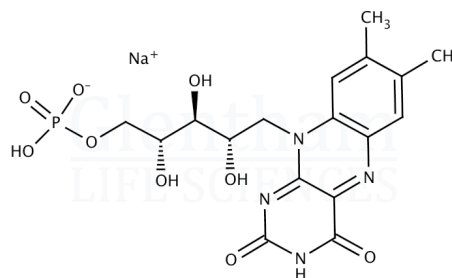


Certificate of Analysis

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 ($\cdot 2\text{H}_2\text{O}$)
Batch Number	361GRI
Molecular Weight	514.36
Molecular Formula	$\text{C}_{17}\text{H}_{20}\text{N}_4\text{NaO}_9\text{P} \cdot x\text{H}_2\text{O}$
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 % ($\text{C}_{17}\text{H}_{20}\text{N}_4\text{O}_6$, 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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