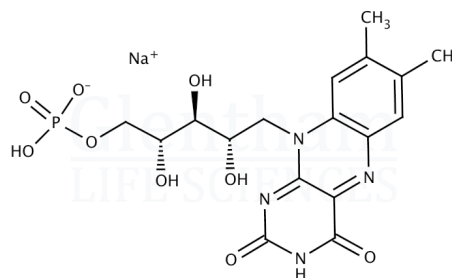


Certificate of Analysis

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
Batch Number	086UOB
Molecular Weight	514.3
Molecular Formula	$C_{17}H_{20}N_4NaO_9P \cdot xH_2O$
Storage Temp.	-20°C



Property	Specification	Batch 086UOB
Physical Description	Yellow to orange crystalline powder	Conforms
Identification	A, B according to USP	Conforms
Solubility (1% in water)	Clear, orange to yellow solution	Conforms
pH (1% in water)	5.0 - 6.5	6.1
Specific Optical Rotation	+37.0 - +42.0 °	+39.9°
Residue on Ignition	≤ 25.0%	22.5%
Free Phosphate	≤ 1.0%	0.7%
Lumiflavin	Absorbance: ≤ 0.025	0.009
Free Riboflavin	≤ 6.0%	4.2%
Riboflavin Diphosphosphates	≤ 6.0%	4.6%
Loss on Drying	≤ 7.5%	5.6%
Assay	73.0 - 79.0 % (C ₁₇ H ₂₀ N ₄ O ₆ , dried basis)	76.0%
Pharmacopoeia Specification(s)	USP	Conforms to USP

Specification Version	v1.0
Manufacture Date	2017-02-15
Re-Test Date	2027-02-22

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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