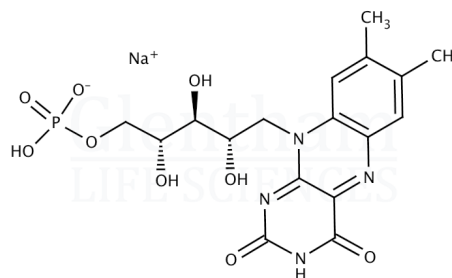


## Product Specification

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 ( $\cdot 2H_2O$ )
Molecular Weight	514.36
Molecular Formula	$C_{17}H_{20}N_4NaO_9P \cdot xH_2O$
Storage Temp.	-20°C



Property	Specification
Physical Description	Yellow to orange crystalline powder
Identification (IR)	To conform to standard
Identification	A, B according to USP
Solubility (1% in water)	Clear, orange to yellow solution
pH (1% in water)	5.0 - 6.5
Specific Optical Rotation	+37.0 - +42.0 °
Residue on Ignition	≤ 25.0%
Free Phosphate	≤ 1.0%
Lumiflavin	Absorbance: ≤ 0.025
Free Riboflavin	≤ 6.0%
Riboflavin Diphosphates	≤ 6.0%
Loss on Drying	≤ 7.5%
Assay	73.0 - 79.0 % ( $C_{17}H_{20}N_4O_6$ , dried basis)
Pharmacopoeia Specification(s)	USP

Specification Version	- v1.1
Date Created	- 2024-07-24

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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