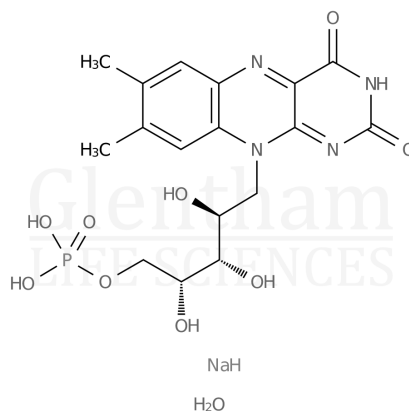


Certificate of Analysis

| | |
|----------------|-----------------------------------------------|
| Product Name | Riboflavin-5"-phosphate sodium salt dihydrate |
| Glentham Code | GV3670 |
| CAS Number | 6184-17-4 |
| MDL Number | FCD00150992 |
| Additional CAS | 130-40-5 ($\cdot xH_2O$) |
| Batch Number | 069IMB |

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



| Property | Specification | Batch 069IMB |
|-------------------------------------------------|-----------------------------------|------------------------|
| Physical Description | Yellow to orange powder | Orange powder |
| Identification (IR) | To conform to standard | Conforms |
| Solubility (5% in water) | Clear, orange solution | Clear, orange solution |
| Specific Optical Rotation ($[\alpha]_{20/D}$) | +37.0 - +43.0 ° (c=1.5, 0.5m HCl) | +39.9° |
| Loss on Drying | ≤ 10.0% | 5.6% |
| Free Riboflavin | ≤ 6.0% | 4.2% |
| Assay | 73.0 - 79.0 % | 76.0% |

| | |
|-----------------------|------------|
| 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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