

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-06-14 13:56:41
Date of Next Testing: 2028-06-13 13:56:41
Product Name: **Riboflavin 5'-monophosphate sodium salt hydrate**
CAS Number: 6184-17-4
Specifications & Purity: 73-79%
Lot #: F2405101
SKU #: **F107158**
Version: **0**
Analysis #: **368657**
Storage Temperature: Store at -20°C

| Parameter | Limit Values | Result |
|--|-------------------------|-------------------------|
| Heavy metal (as Pb) | 0-10 (ppm) | 4.80 ppm |
| Specific Rotation [α] ₂₀ /D(c=1.2 in 7 M HCl in H ₂ O) | 38-43 (°) | 38.02° |
| PH(2% in Water) | 4-6.3 | 5.10 |
| Loss on drying(105°C, 5hr, 700 Pa) | 0-7.5 (%) | 3.90 % |
| Riboflavin diphosphate (as Riboflavin) by HPLC (dry basis) | 0-6 (%) | 4.10 % |
| as free Riboflavin by HPLC (dry basis) | 0-6 (%) | 3.50 % |
| Purity(dry basis)(Spectrophotometry) | 73-79 (%) | 74.21 % |
| Appearance (F107158) | Yellow to Orange Powder | Yellow to Orange Powder |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager