

Certificate of Analysis

Date of Testing: 2023-06-05 10:23:41

Date of Next Testing: 2027-06-04 10:23:41

Product Name: **Riboflavin 5'-monophosphate sodium salt hydrate**

CAS Number: 6184-17-4

Specifications & Purity: 73-79%

Lot #: H1913152

SKU #: **F107158**

Analysis: **233796**

Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-10 (ppm)	4.80 ppm
Specific Rotation $[\alpha]_{20/D}(c=1.2 \text{ in } 7 \text{ M HCl in H}_2\text{O})$	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