

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-09-07 11:39:26

Date of Next Testing: 2027-09-06 11:39:26

Product Name: **Riboflavine**

CAS Number: 83-88-5

Specifications &amp; Purity: 98%

Lot #: I2305274

SKU #: **R104137****Analysis:** **217071**

Storage Temperature: Store at 2-8°C

| Parameter  | Limit Values   | Result   |
|--|--|--|
| Ratio of Absorbances(A444/A267)                              | 0.36-0.39  | 0.38   |
| Specific Rotation [α] <sub>20</sub> /D(c=0.5 in 0.05 M NaOH) | -142--115 (°)  | -118.29 °  |
| Sulfate Ash  | 0-0.1 (%)  | 0.04 %   |
| Purity(HPLC)   | 98-100 (%)   | 99.11300 %   |
| Loss on drying   | 0-1.5 (%)  | 0.09 %   |
| Ratio of Absorbances(A373/A267)                              | 0.31-0.33  | 0.32   |
| Carbon by Elemental Analysis                                 | 53.2-55.3 (%)  | 53.97 %  |
| Nitrogen by Elemental Analysis                               | 14.6-15.2 (%)  | 15.19 %  |
| Appearance (R104137)   | White to Yellow to Orange or Orange-Yellow Powder to Crystal | White to Yellow to Orange or Orange-Yellow Powder to Crystal |
| lumiflavine  | pass   | Pass   |
| Solubility in 0.1M NaOH                                      | Yellow to Orange,Clear,10 mg/ml                              | Yellow to Orange,Clear,10 mg/ml                              |
| Infrared spectrum  | Conforms to Structure  | Conforms to Structure  |



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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager