

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2023-11-09 15:12:11
Date of Next Testing:	2027-11-08 15:12:11
Product Name:	<b>Riboflavine</b>
CAS Number:	83-88-5
Specifications & Purity:	98%
Lot #:	K2307456
SKU #	<b>R104137</b>
Version	<b>1</b>
<b>Analysis #:</b>	<b>289324</b>
Storage Temperature:	Store at 2-8°C

Parameter	Limit Values	Result
Ratio of Absorbances(A444/A267)	0.36-0.39	0.36
Nitrogen by Elemental Analysis	14.6-15.2 (%)	14.81 %
Sulfate Ash	0-0.1 (%)	0.04 %
Purity(HPLC)	98-100 (%)	98.05900 %
Loss on drying	0-1.5 (%)	0.08 %
Ratio of Absorbances(A373/A267)	0.31-0.33	0.32
Carbon by Elemental Analysis	53.2-55.3 (%)	53.68 %
Specific Rotation [α] <sub>20</sub> /D(c=0.5 in 0.05 M NaOH)	-142--115 (°)	-116.50 °
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



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager