

Certificate of Analysis

Date of Testing:	2023-05-26 10:37:46
Date of Next Testing:	2027-05-25 10:37:46
Product Name:	Riboflavine
CAS Number:	83-88-5
Specifications & Purity:	98%
Lot #:	E2317527
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] ₂₀ /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



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