

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-13 17:22:41

Date of Next Testing: 2027-05-12 17:22:41

Product Name: **D-Luciferin**

CAS Number: 2591-17-5

Specifications & Purity: $\geq 98\%$

Lot #: E2309793

SKU #: **D115508**

Version: **1**

Analysis #: **189703**

Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.02000 %
Water by Karl Fischer	0-3 (%)	1.05400 %
Sulfur by Elemental	21.9-23.2 (%)	22.01000 %
Analysis(Anhydrous)		
Specific Rotation $[\alpha]_{20/D(c=1 \text{ in DMF})}$	-34--30 (°)	-30.21000 °
Appearance (D115508)	White to off-white to light yellow powder	White to off-white to light yellow powder
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager