

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-05-27 14:16:28

Date of Next Testing: 2028-05-26 14:16:28

Product Name: **D-Luciferin**

CAS Number: 2591-17-5

Specifications & Purity: $\geq 98\%$

Lot #: E2422171

SKU #: **D115508**

Version: **1**

Analysis #: **350926**

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

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.13500 %
Water by Karl Fischer	0-3 (%)	1.05610 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in DMF})$	-34--30 ($^{\circ}$)	-33.61000 $^{\circ}$
Sulfur by Elemental	21.9-23.2 (%)	21.91100 %
Analysis(Anhydrous)		
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