

Certificate of Analysis

Date of Testing: 2025-07-03 10:53:15
Date of Next Testing: 2029-07-02 10:53:15
Product Name: **D-Luciferin**
CAS Number: 2591-17-5
Specifications & Purity: $\geq 98\%$
Lot #: F2530130
SKU #: **D115508**
Version: **1**
Analysis #: **519616**
Storage Temperature: Store at -20°C , Argon charged

Parameter	Limit Values	Result
Sulfur by Elemental Analysis(Anhydrous)	21.9-23.2 (%)	22.75 %
Purity(HPLC)	98-100 (%)	99.21100 %
Water by Karl Fischer	0-3 (%)	0.50 %
Specific Rotation $[\alpha]_{20}^{\text{D}}$ (c=1 in DMF)	-34--30 ($^{\circ}$)	-33.29 $^{\circ}$
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