

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-06-02 14:37:11  
Date of Next Testing: 2027-06-01 14:37:11  
Product Name: **D-Luciferin sodium salt**  
CAS Number: 103404-75-7  
Specifications & Purity: 98%  
Lot #: E2325337  
SKU #: **D115509**  
**Analysis: 220446**  
Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.13800 %
Water by Karl Fischer	0-11 (%)	9.24 %
Nitrogen by Elemental Analysis	9-9.8 (%)	9.30 %
Sodium (Na)(anhydrous)	7.2-8 (%)	7.50 %
Carbon by Elemental Analysis(anhydrous)	42.8-46.5 (%)	44.60 %
Appearance (D115509)	Off-white to Grey to Yellow to Dark Yellow powder or solid	Off-white to Grey to Yellow to Dark Yellow powder or solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility, Yellow to Green Clear(10mg/mL, H <sub>2</sub> O)	pass	Pass



John Su  
QA & QC Manager