

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-02-09 22:53:57
Date of Next Testing: 2027-02-08 22:53:57
Product Name: **D-Luciferin sodium salt**
CAS Number: 103404-75-7
Specifications & Purity: 98%
Lot #: B2303271
SKU #: **D115509**
Analysis: 158168
Storage Temperature: Store at -20°C, Argon charged

| Parameter | Limit Values | Result |
|--|--|--|
| Purity(HPLC) | 98-100 (%) | 98.09400 % |
| Water by Karl Fischer | 0-11 (%) | 1.44 % |
| Nitrogen by Elemental Analysis | 9-9.8 (%) | 9.36 % |
| Sodium (Na)(anhydrous) | 7.2-8 (%) | 7.75 % |
| Carbon by Elemental Analysis(anhydrous) | 42.8-46.5 (%) | 45.68 % |
| 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 ₂ O) | pass | Pass |



John Su
QA & QC Manager