

Certificate of Analysis

CAT#306 D-Luciferin

Date of Test: January, 17 2019

Compound ID: D-Luciferin (Firefly Luciferin)

5425

 $C_{11}H_8N_2O_3S_2$

280.32 g/mol

CAS# 2591-17-5

IUPAC Name:

(4*S*)-2-(6-hydroxy-1,3-benzothiazol-2-yl)-4,5-dihydrothiazole-4-carboxylic acid

Batch Number:

Manufacturer: Prolume Ltd.

Molecular Formula:

MW:

Structure:

HO N-----OH

| Test Items | Specification | Results | Test method |
|----------------|--|----------|----------------|
| Appearance | Light Yellow Solid | Conforms | Visual |
| Purity | >99% | 99.091% | LCMS |
| Identification | Activity consistent with structure | Conforms | Light emission |
| | Spectrum is consistent with structure | Conforms | By HNMR |
| Storage | Store dry and dark at -20°C or for long term storage at -80°C. | | |

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