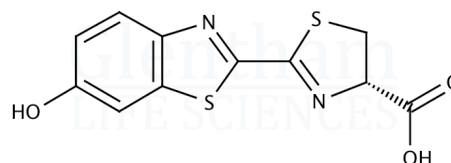


Certificate of Analysis

Product Name	D-Luciferin
Glentham Code	GP9319
CAS Number	2591-17-5
EINECS	219-981-3
MDL Number	MFCD00042929
Batch Number	552IPA
Molecular Weight	280.32
Molecular Formula	$C_{11}H_8N_2O_3S_2$
Storage Temp.	-20°C



Property	Specification	Batch 552IPA
Physical Description	Off-white to yellow powder	Light-yellow powder
Identification	IR	Conforms
Water (KF)	≤ 2.0%	0.5%
Specific Optical Rotation	-36.0 - -32.0 ° (c=1, DMF, 20°C)	-34.2°
Purity (HPLC)	≥ 99.0%	99.7%

Specification Version	v1.0
Manufacture Date	2015-02-12
Re-Test Date	2027-12-02

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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