



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-285376
Lot Number: SAMPLE
Product Name: D-Luciferin, sodium salt monohydrate
CAS Number: 103404-75-7
Molecular Formula: $C_{11}H_7N_2O_3S_2 \cdot Na \cdot H_2O$
Molecular Weight: 320.32

Test	Specification	Result
Appearance	Slightly yellow to yellow powder	Yellow powder
Identification (FTIR)	Consistent with reference spectrum	Complies
Identification (TLC)	Consistent with reference material	Complies
Purity (HPLC)	$\geq 99.0\%$	99.7%
Solution (Color)	Slightly yellow to yellow solution (1% in water)	Light yellow (1% in water)
Solution (Turbidity)	≤ 4.0 NTU (1% in water)	0.7 NTU (1% in water)
Absorption Excitation (1)	381 - 385 nm	383 nm
Extinction Coefficient (1)	≥ 17500.0 L/(mol cm)	17722.4 L/(mol cm)
Absorption Excitation (2)	283 - 285 nm	284 nm
Extinction Coefficient (2)	≥ 6000.0 L/(mol cm)	6438.2 L/(mol cm)
Water Content (KF)	$\leq 1.0\%$	0.20%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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