



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-285375A  
Lot Number: SAMPLE  
Product Name: D-Luciferin 1-(4,5-dimethoxy-2-nitrophenyl)ethyl ester  
CAS Number: 223920-67-0  
Molecular Formula:  $C_{21}H_{19}N_3O_7S_2$   
Molecular Weight: 489.52

Test	Specification	Result
Appearance (Color)	Yellow	Complies
Appearance (Form)	Powder	Complies
Identification (FTIR)	Consistent with reference spectrum	Complies
Identification (TLC)	Consistent with reference material	Complies
Solution (Color)	Light yellow to yellow at 1% in DMF	Light yellow at 1% in DMF
Solution (Turbidity)	$\leq 4.0$ NTU at 1% in DMF	0.5 NTU at 1% in DMF
Absorption Excitation (1)	333 - 337 nm	334 nm
Extinction Coefficient (1)	$\geq 19000$ L/(mol cm)	19447 L/(mol cm)
Absorption Excitation (2)	267 - 271 nm	270 nm
Extinction Coefficient (2)	$\geq 7000$ L/(mol cm)	7601 L/(mol cm)
Water Content (KF)	$\leq 0.5\%$	0.2%

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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