

Certificate of Analysis

Product Name: DMNPE-caged Luciferin
Cat #: L-130
CAS #: 223920-67-0
Lot #: Lot Specific
Retest Date: Lot Specific
Storage:[†] Store desiccated at -20°C. Protect from light.

Test	Specs	Results
Color	Yellow	Yellow
Form	powder	powder
Color of Solution (1% in DMF)	Light yellow to yellow	Light yellow
Turbidity (1% in DMF)	Max. 4.0 NTU	0.5 NTU
Water Content (K. Fischer)	Max. 0.5%	0.2%
TLC (50 mg + 0.5 mL DMF, dissolve and 3 mL of acetone; toluene/acetone 50:50; UV 254 nm)	Corresponds to reference material	Corresponds
UV Wavelength (0.0125 mg/mL in methanol)	333-337 nm	334 nm
Molar Extinction Coefficient (0.0125 mg/mL in methanol at lambda max)	min. 19000 L/(mol cm)	19447 L/(mol cm)
UV Wavelength (0.0125 mg/mL in methanol)	267-271 nm	270 nm
Molar Extinction Coefficient (0.0125 mg/mL in methanol at lambda max)	min. 7000 L/(mol cm)	7601 L/(mol cm)
FT-IR Spectrum	Corresponds to reference spectrum	Corresponds

* Gold Biotechnology, Inc. provides this Certificate of Analysis in good faith and to the best of its knowledge. It should not be substituted for the user's own raw material quality control. This material is for laboratory use only.

† Storage at listed temperature applies to retest date (if shown) or two years from purchase date. Check label for long term storage conditions, which may extend the product beyond the retest date and/or greater than two years from purchase.

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