

Certificate of Analysis

Product Name: L-Luciferin, potassium salt
Cat #: L-127
CAS #: n/a
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 water)	yellow	yellow
Turbidity (1% in water)	max. 4.0 NTU	2.3 NTU
Water Content (K. Fischer)	max. 1.0%	0.7%
Purity (HPLC)	min. 98.0 area-%	99.7 area-%
Molar Extinction Coefficient (0.01 mg/mL 0.5 mol/L Na ₂ CO ₃ pH 11.5 at 385 nm)	min. 17500 L/(mol cm)	17767 L/(mol cm)
UV Wavelength (0.01 mg/mL 0.5 mol/L Na ₂ CO ₃ pH 11.5)	282 to 286 nm	284 nm
Molar Extinction Coefficient (0.01 mg/mL 0.5 mol/L Na ₂ CO ₃ pH 11.5 at 284 nm)	min. 6000 L/(mol cm)	6333 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.

Gold Biotechnology, Inc.
 1328 Ashby Rd.
 St. Louis, MO 63132
 P: (314)890-8778
 F: (314)890-0503
 E: contactgoldbio86@goldbio.com