



Certificate of Analysis

Product Name: LUCK®, D-Luciferin, Potassium Salt (Proven and Published®)
Cat #: LUCK®
CAS #: 115144-35-9
Lot #: Lot Specific
Retest Date[†]: Lot Specific
Storage: Store desiccated at -20°C. Protect from light.

Test	Specs	Results
Color	slightly yellow to yellow	Complies
Form	powder	Complies
Color of Solution (1% in water)	slightly yellow to yellow	Complies
Turbidity (1% in water)	≤4.0 NTU	Complies
Water Content (K. Fischer)	≤1.0%	Complies
TLC (50 mg in 5 ml water; ethanol/ammonia 20:1; UV 254 nm)	Corresponds to reference material	Complies
Purity (HPLC)	≥99.0 area-%	Complies
UV Wavelength (c=0.01 mg/mL in 0.5 M Na ₂ CO ₃)	381-385 nm	Complies
Molar Extinction Coefficient	≥17500.0 L/(mol cm)	Complies
UV Wavelength (c=0.01 mg/mL in 0.5 M Na ₂ CO ₃)	283-285 nm	Complies
Molar Extinction Coefficient	≥6000.0 L/(mol cm)	Complies
FT-IR Spectrum	Corresponds to reference spectrum	Complies

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† If provided, the Certificate of Analysis (COA) retest date corresponds to the recommended storage conditions provided on the COA. If no retest date is shown, the shelf-life for products is 2 years after purchase when stored according to COA recommendations. Retest dates are not rigid, and often only serve an informational purpose. COA retest dates are supplied by the manufacturer; however, GoldBio product labels may contain different storage recommendations to extend the life of the product beyond the manufacturer retest date or 2 years from purchase.

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