



## Product Specification

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

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

GOLD BIOTECHNOLOGY, INC. provides this Product Specification in good faith. Specifications are subject to change.

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