

## **Northeast Business Center**

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## **Certificate of Analysis**

Product Name:	D-Luciferin Potassium
Synonym	(S)-2-(6-Hydroxy-2-benzothiazolyl)-2-thiazoline-4-carboxylic acid potassium salt
CAS No:	115144-35-9
Prod. No:	CT-DLUCI
Lot No:	02
Batch Empirical Formula Batch Empirical Wt.	C <sub>11</sub> H <sub>7</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub> ⋅ K 318.4
Solubility	Soluble in Water (31.8mg/ml, 100 mM)
Storage	Store at 0 °C (short term), - 20 °C (long term), desiccated

Appearance	Yellow to pale yellow powder
Quality Control	<sup>1</sup> HNMR: [√] Achiral HPLC: [√] Chiral HPLC: [√] Quantitative Elemental Analysis: [√] C <sub>11</sub> H <sub>7</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub> ⋅ K Calculated: C: 41.49%; H: 2.22%; N: 8.88% Found: C: 41.20%; H: 2.19%; N: 8.79%
Optical Rotation	$[\alpha]^{25}_{D} = -32.8 ^{\circ} (c  1.21, DMF)$
Chemical Purity	>99.5% (Achiral HPLC)
Optical Purity (e.e)	>99.5% (Chiral HPLC)