

PRODUCT SPECIFICATION

Cat. No. **L-8220**

Product **D-Luciferin Firefly, potassium salt (synthetic)**

4,5-Dihydro-2-(6-hydroxy-2-benzothiazolyl)-4-thiazolecarboxylic acid potassium salt

CAS RN [115144-35-9]

M. F. $C_{11}H_7N_2O_3S_2K$

M. W. 318.42 g/mol

	<i>Specification</i>
Appearance	yellow powder
Solution (1 % in water)	yellow, clear
Water Content (K. Fischer)	< 1.0 %
Purity (HPLC)	> 99.0 area-%
Thin Layer Chromatogram (50 mg in 5 ml of water; ethanol/ammonia 20:1; UV 254 nm)	in accordance with reference material
UV (c = 0.01 mg/ml 0.5 M sodium carbonate)	$\lambda_{\max 1}$: 385 nm \pm 1 nm
UV (c = 0.01 mg/ml 0.5 M sodium carbonate)	ϵ_1 : min. 17500 l · mol ⁻¹ · cm ⁻¹
UV (c = 0.01 mg/ml 0.5 M sodium carbonate)	$\lambda_{\max 2}$: 284 nm \pm 1 nm
UV (c = 0.01 mg/ml 0.5 M sodium carbonate)	ϵ_2 : min. 6000 l · mol ⁻¹ · cm ⁻¹
FTIR	consistent with assigned structure

Date of Issue 07.06.2005

BIOSYNTH AG
U. Zobel