

CERTIFICATE OF ANALYSIS

MediLumine Inc.

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Chemical Name:	D-(-)-2-(6'-hydroxy-2'-benzothiazoyl)-Δ-2-thiazolene-4-Carboxylic acid, potassium salt
Trade Name(s):	D-Luciferin Potassium Salt
Formula:	C ₁₁ H ₇ N ₂ O ₃ S ₂ K
Molecular Weight:	318.41
Bulk Stock Code:	1-360101-100
Bulk Lot Number:	M20889-223-1
Packaged Stock Code:	221LPS, 222LPS, 223LPS
Packaged Lot Number(s):	ML68409

	Specification	Result
Appearance:	Pale yellow to yellow solid.	Yellow solid
Identification, FTIR :	Conforms to structure	Conforms to structure
Purity, HPLC:	NLT 99% AUC	99% AUC
Impurity:	Dehydro-Luciferin: Record %AUC	<0.1% AUC
Water:	NMT 9.0%	2.7%
Chiral Purity:	NLT 97.0% D-Luciferin	99.6%
Solution Test:	The sample preparation must be a clear solution essentially free from particulates.	Pass
Expiration Date:	2 years from manufacture date	

Note: Sample hygroscopic and light sensitive. Store in the freezer at -20 °C protected from light. Allow to warm to room temperature before opening.