

Certificate of Analysis

LucyQ Duo Luciferase Assay Kit

Cat No : L0013

Lot No : 06251911

TEST	Specification	Result
Component Identification	Confirmed	PASS
Label Identification	Confirmed	PASS
Firefly Luciferase Assay	Test	PASS
Renilla Luciferase Assay	Test	PASS

Assay Condition

Firefly Luciferase Assay: Recombinant firefly luciferase is added to 1X Cell Lysis Buffer with 1mg/ml porcine gelatin and assayed with LucyQ Fluc Substrate reconstituted in LucyQ Fluc Assay Buffer versus LucyQ Fluc Substrate reconstituted in a reference buffer which is optimal for firefly luciferase activity. The activity of firefly luciferase assayed in LucyQ Fluc Assay Buffer is at least 70% of that assayed in the reference buffer. The stability of light intensity produced from the firefly luciferase assay is measured over a five minute period. Luciferase activity remaining after five minutes is > 50% of the initial activity.

Renilla Luciferase Assay: Renilla luciferase, diluted in 1X Cell Lysis Buffer containing 1mg/ml porcine gelatin, is assayed using LucyQ Rluc Assay Buffer. The light intensity produced is compared against the light intensity of a 4 μ Ci 14C Light Standard. Under these conditions, the light intensity of the LucyQ Rluc Assay Buffer is between 75% and 125% of the light intensity of the 14C Light Standard.

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