



SOMETIMES
ONE
JUST ISN'T ENOUGH

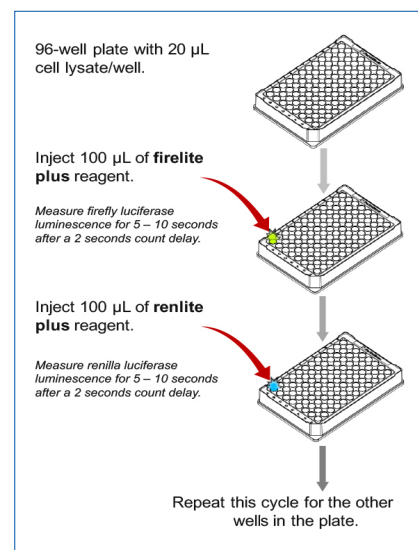
Dual Reporter Gene Assay:

A new DTT-free method for measuring Firefly **and** Renilla luciferases from the same well

Reporter gene assays are used in applications ranging from understanding of the fundamentals of gene transcription regulation, including miRNA analysis, to high-throughput screening for drug development at receptors and signal transduction intermediates. Such reporter gene assays can be run using a single reporter gene, like firefly luciferase, but the quality of the assay can be greatly improved by the addition of a second reporter gene, like Renilla luciferase. The second reporter gene can be used either as a tool for normalization of cell number, cell lysis efficiency, cell transfection efficiency, or as a reporter for a second cellular event.

For accelerated research and drug development, in addition to the glow Firefly luciferase assays already available from PerkinElmer for more than 20 years, PerkinElmer now also offers **twinlite**, which enables the precise detection of Firefly and Renilla luciferase reporter gene expressions.

- **Improved sensitivity** - Detect as low as 1×10^{-20} mole of luciferase
- **No need to work under the chemical hood** - No DTT means safer for user and environment and no smell
- **Improved temperature stability** - Shipped at room temperature, and can be stored at 4 °C*
- **No need to thaw** - Products are quickly ready for use
- **Better stability after reconstitution** - More stable at 22 °C or at 4 °C compared to competitor products, providing better comfort of use and better day-to-day data consistency. And for added convenience, can be frozen or thawed at least eight times
- **Better stabilization of luciferases in cell lysis solution** - No need to rush to set up your assays
- **Be comfortable with your dispensing system** - Get at least 100 assay points from a 100 assay point kit: to accommodate dispensers' dead volumes, 20% extra volume of each reagent are provided.



Sequential dispense-and-read twinlite protocol.

* Does not apply to Renilla luciferase substrate (renlite substrate), whose long term storage is -20 °C

Choose the right detection reagent based on your application

Product	Half-life (hours)	Sensitivity and Applications	Kit Size	No. Of Datapoints			Part No.
				96-w	384-w	1536-w	
Firefly and Renilla Luciferase Reporter Gene Assay System							
twinlite	Flash: Dispense and read	<ul style="list-style-type: none"> • Detects at least 1×10^{-20} mol/well of luciferase* • Dual reporter gene assay • High data quality by normalization • Screen two events in parallel 	twinlite 100 Assay Kit	120**	480**	N/A	6066706
			twinlite 1000 Assay Kit	1,060**	4,240**	N/A	6066709
Firefly Luciferase Reporter Gene Assay Systems							
sensilite	Flash: Dispense and read	<ul style="list-style-type: none"> • Most sensitive - Detects at least 1×10^{-20} mol/well of luciferase* • Low transfection efficiency • Stem cell transfection • Quickest assay: Dispense and get your results 	sensilite 100 Assay Kit	120**	480**	N/A	6066726
			sensilite 1000 Assay Kit	1,060**	4,240**	N/A	6066729
britelite plus	Glow, 0.5-hour half-life	<ul style="list-style-type: none"> • Superior sensitivity - Detects at least 1.6×10^{-20} mol/well of luciferase* • Low transfection efficiency • Stem cell transfection • Rapid read time (continuous processing) • No need for build-in dispensers 	britelite plus 10 mL Kit	100	400	3,300	6066766
			britelite plus 100 mL Kit	1,000	4,000	33,000	6066761
			britelite plus 1000 mL Kit	10,000	40,000	333,000	6066769
neolite	Glow, 2.5-hour half-life	<ul style="list-style-type: none"> • High assay windows, moderate transfection efficiency - Detects at least 1.6×10^{-19} mol/well of luciferase* • Stem cell transfection • Low- to high-throughput screening • Extended read times • Most robust • No need for build-in dispensers 	neolite 10 mL Kit	100	400	3,300	6016716
			neolite 100 mL Kit	1,000	4,000	33,000	6016711
			neolite 1000 mL Kit	10,000	40,000	333,000	6016719
steadylite plus	Glow, 4-hour half-life	<ul style="list-style-type: none"> • Strong, steady signal - Detects 1.6×10^{-19} mol/well of luciferase* • Long extended read times, ideal for biggest batches processing • High-throughput screening • No need for build-in dispensers 	steadylite plus 10 mL Kit	100	400	3,300	6066756
			steadylite plus 100 mL Kit	1,000	4,000	33,000	6066751
			steadylite plus 1000 mL Kit	10,000	40,000	333,000	6066759

All our reporter gene assay kits:

- **Are shipped at room temperature** - No dry ice to pay for or to eliminate
- **Are stored at 4 °C** - No need to thaw, quickly available for use
- **No need to work under the chemical hood** - No DTT means safer for user and environment and no smell
- **Provides performance** - Similar to or better than related competitor products

Samples available for evaluation - please contact your local PerkinElmer representative.

* Determined on PerkinElmer Readers using Ultra-sensitive Luminescence Mode

** Extra-volume provided to accommodate dispenser's dead volume

PerkinElmer, Inc.
940 Winter Street
Waltham, MA 02451 USA
P: (800) 762-4000 or
(+1) 203-925-4602
www.perkinelmer.com



For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

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