

5× Firefly Luciferase Lysis Buffer

L1375506

Storage: Store at -20°C.

Product Description

5× Firefly Lysis Buffer is a concentrated cell lysis buffer that is designed for use with Firefly Luciferase Assay Kit (F598310 and F773892). These kits are supplied with sufficient 5X Firefly Lysis Buffer to perform the stated number of assays with cells grown in 96 – 24 well plates. 5× Firefly Lysis Buffer is sold separately for use with the kits when more lysis buffer (e.g. >100 uL/well) is required.

Note: 5× Firefly Lysis Buffer is not compatible with Renilla Luciferase. If you require additional lysis buffer for use with Renilla Luciferase Assay Kit (R598308) and Firefly and Renilla Luciferase Assay Kit (D829607), order 5× Passive Lysis Buffer (P1375510).

Protocol

1、 Preparation of cell lysates

1. Prepare 1× lysis buffer by adding 1 volume of 5× Firefly Luciferase Lysis Buffer to 4 volumes of dH₂O and mixing well. 1× lysis buffer may be stored at 4°C for up to one month.

2、 Lysis of Cells Cultured in Multiwell Plates

1. Remove growth medium from cultured cells and gently add a sufficient volume of phosphate buffered saline (PBS) to wash the surface of the culture vessel. Add 1× lysis buffer to each well using the volume recommended below for each type of culture plate:

Wells/plate	Lysis buffer/well
6 well	500 uL
12 well	250 uL
24 well	100 uL
48 well	65 uL
96 well	20 uL

2. Place the culture plates on a rocking platform or orbital shaker with gentle rocking/shaking to ensure complete and even coverage of the cell monolayer with 1× lysis buffer. Rock the culture plates at room temperature for 15 minutes.

Note: Cultures that are overgrown are often more resistant to complete lysis and typically require an increased volume of lysis buffer and/or an extended treatment period to ensure complete lysis. Lifting cells from the plate will facilitate the process of cell lysis.

3. Transfer the lysate to a tube or vial. Optional: the lysate can be cleared by centrifugation for 30 seconds at top speed in a refrigerated microcentrifuge and transferred into a new tube. Place at 4°C for until ready to assay. Store lysates at -20°C or -70°C if assay will not be

performed on the same day.

4. To assay lysates with Firefly Luciferase Assay Kit (F598310 or F773892), follow the assay protocols provided with the kit.

Related Products

Catalog number	Product
F773892	Firefly Luciferase Reporter Gene Assay Kit
G830846	Gaussia Luciferase Reporter Gene Assay Kit
D829607	Renilla-Firefly Luciferase Dual Assay Kit
D828158	Bio-Nano & Firefly Dual Luciferase Reporter Gene Assay Kit
B980605	Bio-Nano Luciferase Dual Assay Kit
G1375755	Firefly Luciferase Reporter Gene Assay Kit (Glow)
B1375760	Firefly Luciferase Reporter Gene Assay Kit (Glow Bright)
R1375759	Renilla Luciferase Reporter Gene Assay Kit (Standard)
S1375702	Renilla Luciferase Reporter Gene Assay Kit (Flash)
R1375756	Renilla Luciferase Reporter Gene Assay Kit (Glow Bright)
G1375752	Gaussia Luciferase Reporter Gene Assay Kit (Glow Bright)
G1375704	Gaussia Luciferase Reporter Gene Assay Kit (Flash)
S1375705	Firefly&Renilla-Light Luciferase Reporter Gene Assay Kit
O1410871	One-Step Luciferase Assay Kit
B1411115	Bright One-Step Luciferase Assay Kit
S1411196	Steady One-Step Luciferase Assay Kit
L772127	Luminescent Cell Viability Assay Kit
D1374056	Luminescent 3D Cell Viability Assay Kit