Elite™ Firefly Luciferase Assay Kit

CATALOG NUMBER: CA-L165, CA-L165-10

Updated on January 26, 2023

Description

Provided in the sizes of 10 mL (CA-L165, for one plate) and 100 mL (CA-L165-10, for 10 plates)

Application

- For firefly luciferase reporter assay

Features

- **Greater linear range**
- **Accurate**
- **Robust:** Excellent signal to noise (basal) ratio. Stable assay signal.
- **Easy to use**: Homogenous assay, add-and-read assay, amenable to HTS format.

Kit Components

For CA-L165

- **Solution I and II:** 5 mL each
- **Component A:** 35 µL
- **Component B:** 120 µL

For CA-L165-10

- **Solution I and II:** 50 mL each
- **Component A:** 350 µL
- **Component B:** 1.2 mL

Storage

Store all in freezer (-20 ºC)

Assay Protocol (for one 96-well or 384-well plate)

A) Preparation of Luciferase Assay WORKING SOLUTION

1. Thaw Solution I and Solution II at room temperature (RT, ~22 ºC).
2. Thaw components A & B at RT and then keep them on ice. ***Note: Do not thaw Component A& B at 37˚C.***
3. Prepare Assay Buffer by mixing Solution I (5 mL) and Solution II (5 mL). Transfer Component A (35 µl) and Component B (120 µl) into the 10 ml of Assay Buffer to make luciferase assay WORKING SOLUTION. The amount of WORKING SOLUTION prepared can be modified to suit the experimental design. *Note: Unused Components A and B can be refrozen (at -20 ˚C). Unused Assay Buffer can be stored at 4 ºC to be used for later experiments the same day.*
4. Mix thoroughly by inverting and vortexing for 30 sec. The reconstituted WORKING SOLUTION at RT should be used within 1 hour, or it can be kept at 4ºC for no more than 4 hours. In general, only the freshly prepared WORKING SOLUTION is recommended for the experiments.

B) Measurement of Luciferase Activity in Growing Cells

1. Grow cells on opaque white 96 well plates* appropriate for luciferase signal measurement.
   *For example: Falcon® 96-well White/Clear Flat Bottom TC-treated Microplate, w/ Lid, Sterile, Item # 353377
2. To generate assay signal, add an equal volume of luciferase assay WORKING SOLUTION to culture media overlaying cells.
3. Incubate the plate at room temperature (~22 ºC) for 5 minutes.
4. Read on a luminescence plate reader and record the data.

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