Quick Manual

Beetle-Juice Luciferase Assay Firefly

Package Sizes:

Art.no.	Volume	No. Assays
102511	**100 ml**	**(1.000-2.000 assays)**
102510	**5 x 10 ml**	**(500-1.000 assays)**
102511-1	**1 x 10 ml**	**(100-200 assays)**
102511-2	**1 x 4 ml**	**Sample**

Components included:

Beetle-Juice	**Reaction buffer** **Store at +4°C.**
D-Luciferin	**Vial A** **Store at -20°C**.
ATP	**Vial B** **Store at -20°C**.
2x Lysis-Juice	**dual concentrated Lysis-Buffer** **Store at +4°C.**

Reconstruction:

Please dissolve vial A and B in the Reaction buffer and mix gently.
The prepared mixture can be stored at -80 °C and one time defrosted for using.
To measure the Luciferase the buffer should be tempered 37 °C but at least room temperature.

Preparation of Cell Lysates:

Beetle-Juice Luciferase Assay includes a Lysis-Juice. Lysis-Juice is dual concentrated and suitable for mammalian cells which were transfected with Firefly Luciferase. Please dilute the dual concentrated lysis buffer with water or within your cell culture.

Standard Protocol for Cells Cultured in Multiwell Plates

Required volumes of Lysis-Juice

Culture Plate	Vol. Lysis-Juice
6-well	500µl
12-well	250µl
24-well	100µl
48-well	65µl
96-well	20µl

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Beetle-Juice Luciferase Assay Firefly

Standard Protocol for Cells Cultured in Multiwell Plates

- Remove the growth medium from your adherent cells
- Wash the monolayer two or three times with phosphate buffered saline (PBS)
- Add the required volume of Lysis-Juice to each well (see Table.1)
- Place the plate on a shaker for 15 minutes at room temperature, additional steps of up-down pipetting of cell-buffer mix will increase the lysis (or freeze and defrosting steps could be added)
- Ready to use cell-lysate can placed in storage tubes or measured in the plate by adding Beetle-Juice.

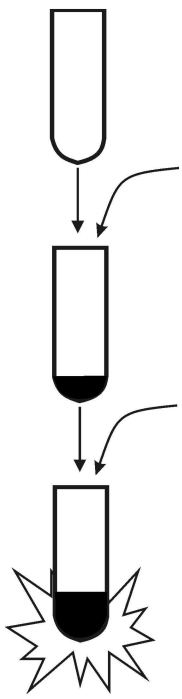
Standard Protocol:

Program Luminometer suggestion: 2 sec. Delay, 5 sec. measurement time (can be customized)

1.) Transfer 20µl cell lysate to a luminometer tube / microplate well.
2.) Add the prepared **Beetle-Juice**.
3.) Measurement starts after 2 sec. delay for 5 sec. duration.

Standard procedure:

Program Luminometer
(delay 2sec./measurement duration 5sec)



Transfer 20µl Cell Lysate into Luminometer tube

Transfer 100µl Beetle-Juice (with D-Luciferin + ATP) into luminometer tube

Measurement (Firefly Luciferase)

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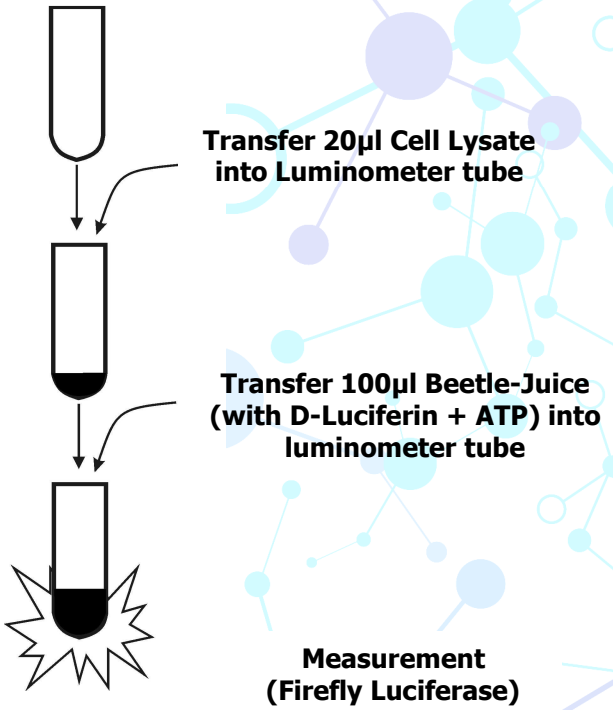

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