

Beetle-Juice SMALL KIT (1 02 510)

Beetle-Juice

5 x 10ml

Buffer for Screening with Beetle-Luciferase – without substrate. **Store at +4°C.**

D-Luciferin

5 x 1 vial (A)→ for 10 ml Beetle-Juice

p. a. free acid, firefly (synth.). **Store at -20°C.**

ATP

5 x 1 vial (B)→for 10 ml Beetle-Juice

Adenosintriphosphat, **Store at -20°C.**

2x Lysis-Juice 1

1 x 10 ml

Lysis-Buffer with detergence, dual concentrated, for measurement of Firefly luciferase or β -Galactosidase in animal cell
Store at +4°C.

Reconstruction:

This Beetle-Juice SMALL-KIT includes 10 ml Test-Systems for Luciferases from firefly species. Beside the black buffer-bottle the kit is equipped with further tubes which are labelled with **A** D-Luciferine and **B** ATP. D-Luciferine and ATP are white powders which have to be dissolved and mixed into the buffer by shaking gently. Afterwards the finished measuring buffer can be aliquoted and long-term stored at -20/-80°C.

Preparation of Cell Lysates:

Beetle-Juice SMALL-KIT includes Lysis-Juice 1. This buffer contains detergence, is dual concentrated and suitable for mammalian cells which were transfected with **Firefly Luciferase and β -Galactosidase**. Please dilute the dual concentrated lysis buffer with water or within your cell culture!

Note: This lysis buffer contains detergence and should not be used for the marine luciferases from *Renilla reniformis* and *Gaussia princeps*. It has shown that the combination of CTZ with detergent leads autoluminescent signals.

Standard Protocol for Cells Cultured in Multiwell Plates

Required volume of Lysis-Juice

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

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Standard Protocol

Program Luminometer:

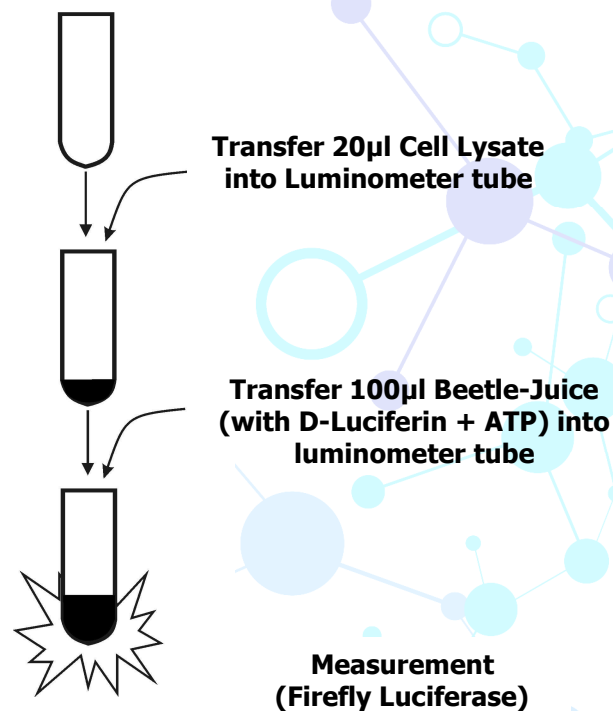
For the measuring we suggest measurement duration of 5 sec. and a delay of 2 sec. for each sample.

- 1.) At first transfer 20 μ l cell lysate into your luminometer tube / well.
- 2.) After that add the ready-to-use **Beetle-Juice**.
- 3.) Measurement starts after 2 sec. delay for 5 sec. duration.

Standard procedure:

Program Luminometer

(delay 2sec./measurement duration 5sec)





Quick Manual

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