Quick Manual

Beetle Long GLOW-Juice (1 02 513)

Components included:

Beetle LongGlow-Juice	**100ml** Reagent for the detection of Firefly-Luciferase. **Store at +4°C.**
Substrates	**1 vial** → for 100 ml Beetle-LongGlow Juice **Store at -20°C**.

Note: Do not combine this buffer with marine luciferases because the reagent contains detergents. The combination of detergents with the substrate of marine luciferases (Coelenterazine) leads to autoluminescent reactions.

Reconstruction:

Beside the black buffer-bottle the kit is equipped with another tube includes the substrates. Dissolve the substrates in the reagent and mix them by gently shaking. Afterwards the ready-to-use reagent can be stored at +4°C for 2-5 days and at -20°C for 2 weeks.

Preparation of Cell Lysates:

For the preparation of cells for measuring with Beetle-LongGlow Juice please use your standard lysis buffer or PJK's Lysis-buffer for Firefly Assays (Lysis-Juice).

Standard Protocol

Program Luminometer:
After adding the Beetle Long Glow-Juice to the cell lysate a stable luminescent signal occurs over 5 hours duration. For the measuring in the luminometer we suggest a measurement duration of 5 sec. and a delay of 2 sec. for each sample.

1.) At first transfer 20µl cell lysate into your luminometer tube / well.

2.) After that add the ready-to-use **Beetle-LongGlow Juice**.

3.) Measurement starts after 2 sec. delay for 5 sec. duration.

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Standard procedure:

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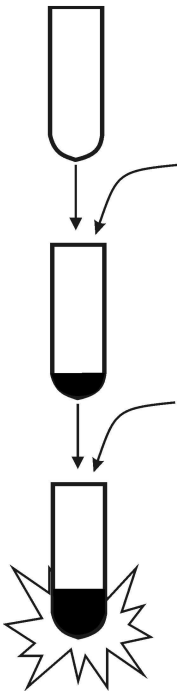
(delay 2sec./measurement duration 5sec)



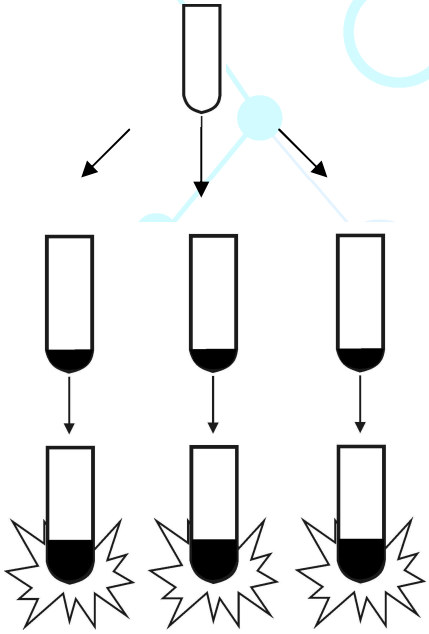
Transfer 20µl Cell Lysate into Luminometer tube

Transfer 100µl Beetle LongGlow-Juice into luminometer tube

Measurement (Firefly Luciferase)

Optional: parallel measurement in Duo- or Triple-Well System (Firefly/ Renilla/ Gaussia/ AP/ ß-Gal)

Split the Cell Lysate and transfer to different tubes for measuring several enzymes in one sample.



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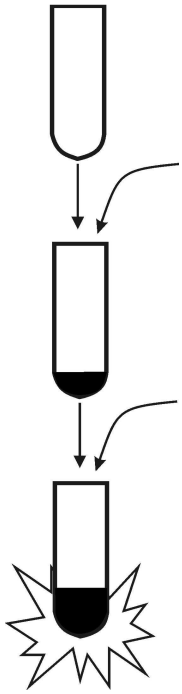

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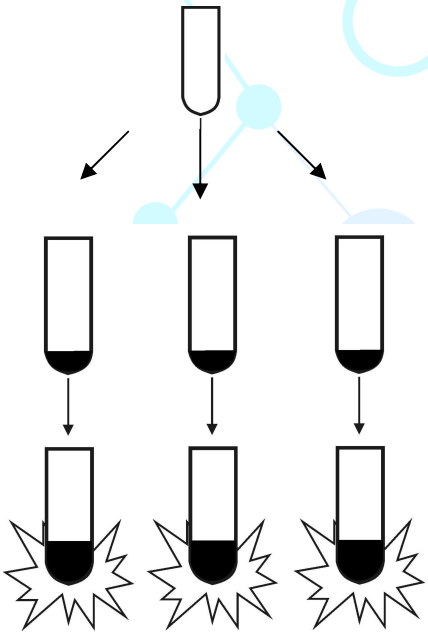

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