

Components included:

- **Beetle LongGlow-Juice 100ml**
Measuring buffer for Firefly luciferase. **Store at +4°C.**
- **D-Luciferin** **1 vial (A)→ for 100 ml Beetle-LongGlow Juice**
Store at -20°C.
- **ATP** **1 vial (B)→for 100 ml Beetle-LongGlow Juice**
Adenosintriphosphat, **Store at -20°C.**

Note: Do not combine this buffer with marine luciferases because the buffer contains detergence. The combination of detergence with the substrate of marine luciferases (Coelenterazine) leads to autoluminescence signals.

Reconstruction:

Beside the black buffer-bottle the kit is equipped with three further tubes which are labelled with **A** D-Luciferine, **B** ATP. All are white powders which have to be dissolved and mixed into the buffer by shaking gently. Afterwards the finished measuring buffer can be stored at +4°C for 2-5 days and at -20°C for 2 weeks.

Preparation of Cell Lysates:

Beetle LongGlow-Juice includes detergence for cell lysis. Though that a separate lysis step is not necessary. For lysis of difficult cell types please use additionally your usual lysis reagent.

Standard Protocol

Program Luminometer:

After adding the Beetle-LongGlow Juice to the cell lysate a stable luminescent signal occurs over 5 hours duration. For the measuring in the luminometer we suggest 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**. Afterwards measurement can be done between 5 minutes and 5 hours.
- 3.) Measurement: 2 sec. delay, 5 sec. measurement duration.

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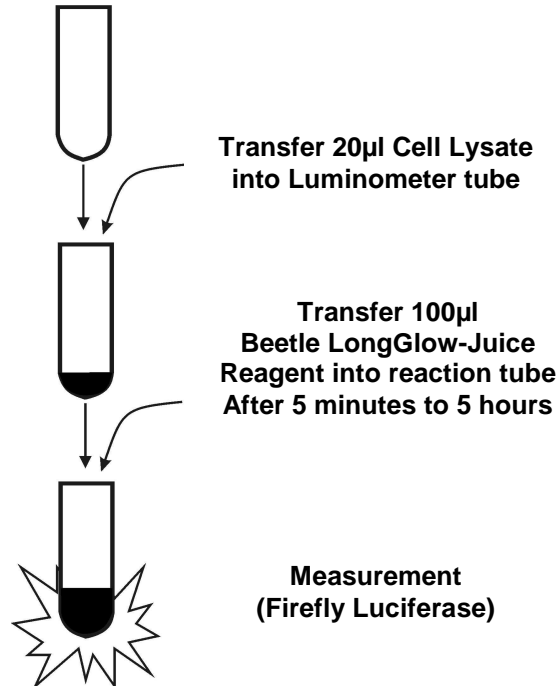
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Standard procedure:

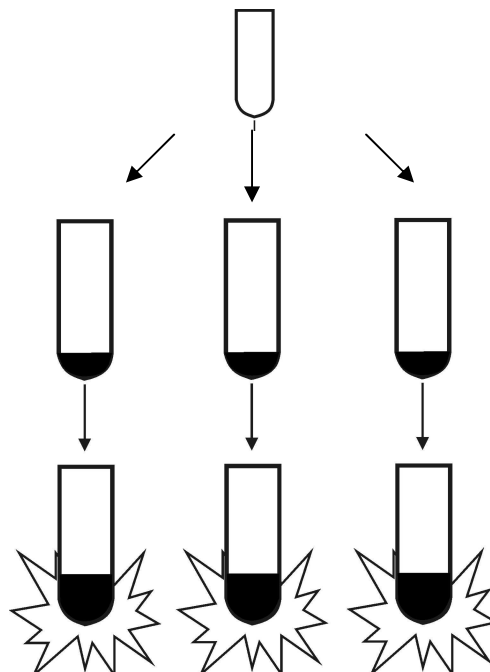
Program Luminometer

(delay 2sec./measurement duration 5sec)



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

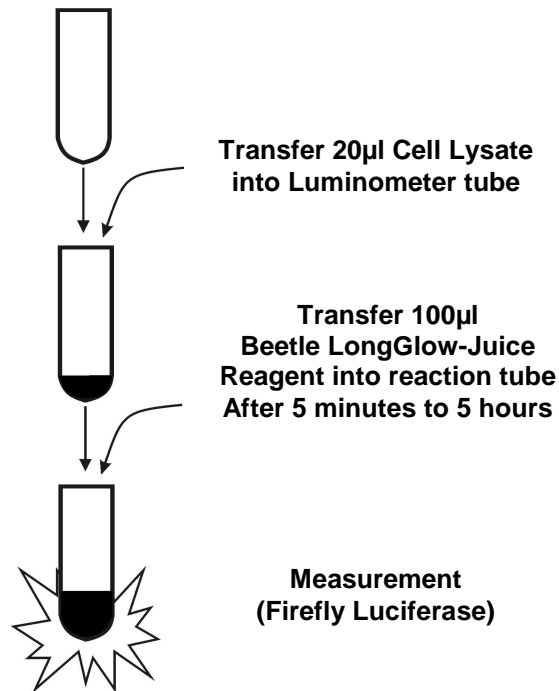
Split the Cell Lysate and transfer to different tubes for measuring several luciferases in one sample.



Standard procedure:

Program Luminometer

(delay 2sec./measurement duration 5sec)



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