Quick Manual

ß GUS-Juice (1 03 322)

Components included:

ß GUS-Juice	**50 ml (Bottle A)** Chemiluminescent Substrate for ß-Glucuronidase Enzyme detection. **Store at +4°C.**
Triggering Reagent	**50 ml (Bottle B)** **Store at +4°C**

Preparation of Cell Lysates:

For cell lysis, we suggest the follow buffers:

- **Animal cells**: 100 mM potassium phosphate (pH 7,8), 0,2% Triton X100
- **Yeast cells**: 0,5 M sodium phosphate (pH 7,1) 50 mM KCl, 5 mM $MgSO_4$

Standard Protocol for Detection of β-Galactosidase in Microtiter Plate Luminometer

Equilibrate at room temperature for 30 minutes before use.

Best results for chemiluminescent detection of β-Glucuronidase enzyme or reporter assays can be obtained from 30 minutes to 60 minutes incubation of β- GUS Juice with β- Glucuronidase enzyme and read the plate or tube within 2 to 10 minutes after triggering the reaction mixture by accelerator or enhancer.

- Add 5 to 10 µl of diluted β-Glucuronidase enzyme or cell extract to microplate wells.
- Add 50 to 100 µl of diluted β-GUS Juice and incubate for 30 to 60 minutes at room temperature.
- Add 50 to 100 µl of triggering reagent and shake it for 10 seconds.
- Place the microtiter plate in luminometer and start reading.
- Best results are obtained between 2 to 10 minutes.

PJK GmbH
Elsaesserstr. 51 - 66271 Kleinblittersdorf - Germany
Phone: +49 (0)6805-91 20 22 - Fax: +49 (0)6805- 91 20 24
info@pjk-gmbh.com, www.pjk-gmbh.com

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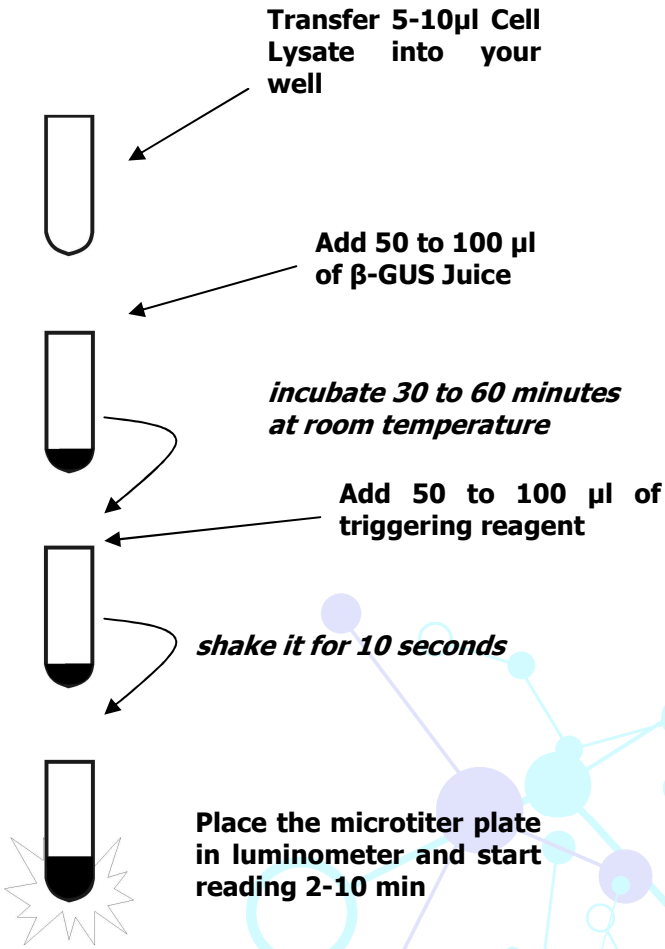
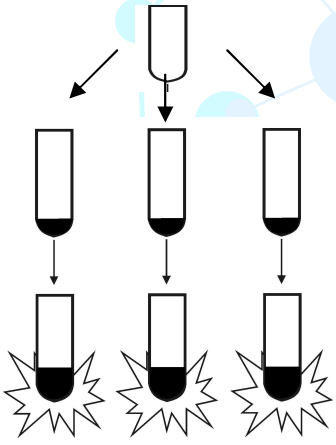
Standard procedure:



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

Split the cell lysate and transfer to different tubes for measuring several enzymes in one sample.



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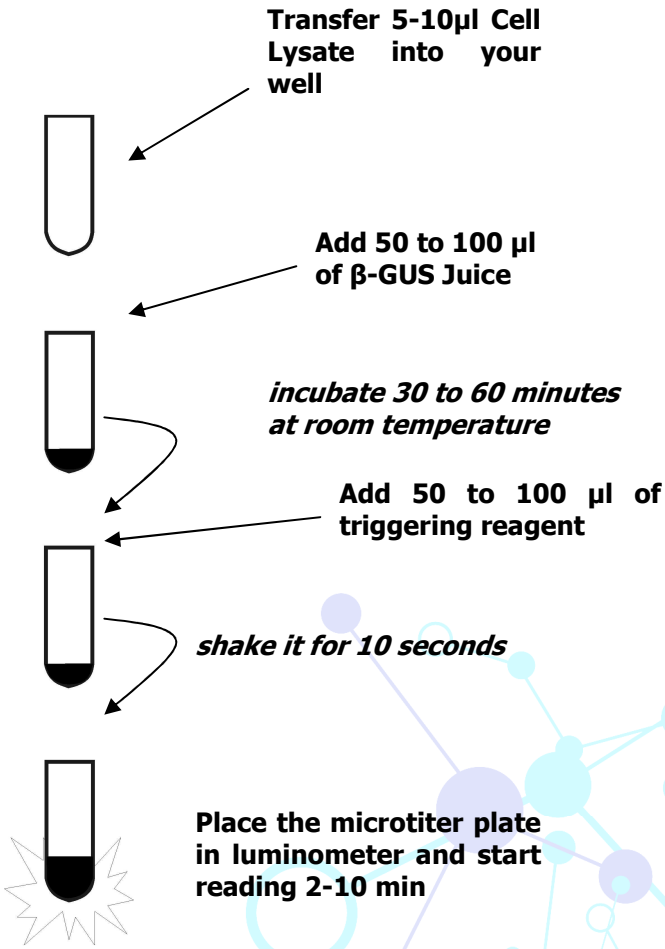

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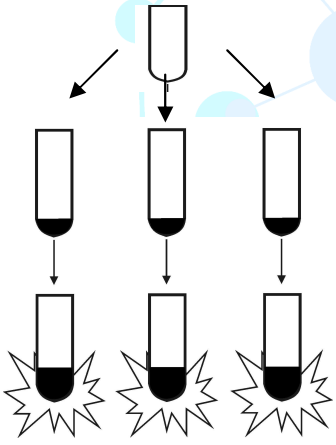

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