Quick Manual

Gaussia Glow-Juice Luciferase Assay

Package Sizes:

Art.no.	Volume	No. Assays
102542	**100 ml**	**(1.000-2.000 assays)**
102544	**5 x 10 ml**	**(500-1.000 assays)**
102542-1	**1 x 10 ml**	**(100-200 assays)**
102542-0	**1 x 4 ml**	**Sample**

Components included:

Gaussia Glow-Juice	**Reaction buffer** **Store at +4°C.**
Coelenterazine	**Vial A** **Store at -20°C**.
Reconstruction Buffer	**Vial B** **Store at -20°C**.
2x Lysis-Juice	**dual concentrated Lysis-Buffer** **Store at +4°C.**

Reconstruction:

Please dissolve the substrate in Vial A with the Reconstruction buffer in Vial B and mix gently.
The prepared mixture can be stored at -80 °C. After 30 days the activity of the dissolved substrate will start linear to decrease.
Just before measuring the Gaussia Luciferase please dilute the substrate mixture in the Reaction Buffer 1:50 (2µl Substrate in 100 µl reaction buffer).
Before measuring the buffer should be tempered 37 °C - at least room temperature.
Remainders of the mixed Gaussia Glow-Juice should not be frozen again because they will loose noticeable activity.

Preparation of Cell Lysates:

Gaussia Glow-Juice Luciferase Assay includes a Lysis-Juice. Lysis-Juice is dual concentrated and suitable for mammalian cells which were transfected with Gaussia Luciferase. Please dilute the dual concentrated lysis buffer with water or within your cell culture.
Some types of Gaussia Luciferases are expressed into the supernatant. In this case the Lysis step is not necessary.

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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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 Gaussia Glow-Juice.

Standard Protocol:

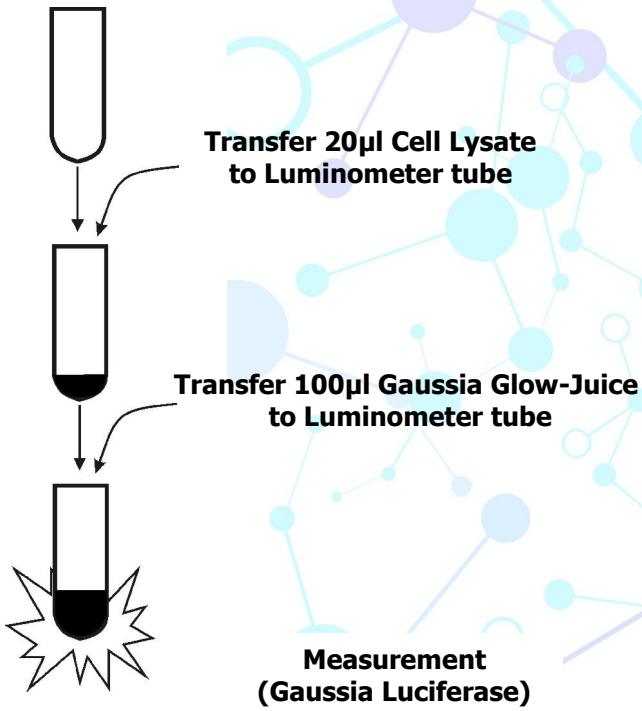
The Luciferase can be measured between 5 to 15 min. after adding the Gaussia Glow-Juice.

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 **Gaussia Glow-Juice** and wait for specific time period (5-15 min)
3.) Start measurement with 2 sec. delay for 5 sec. duration.

Standard procedure:

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



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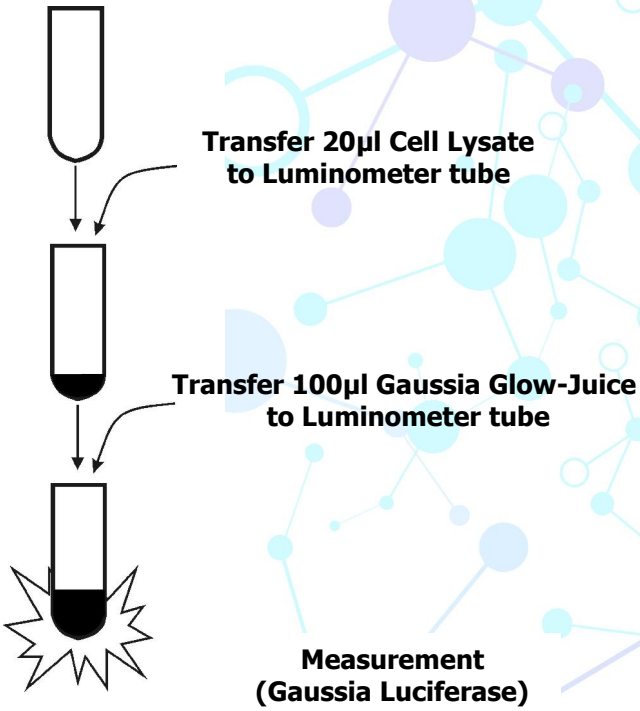

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