

Analyzing GFP transfection Efficiency using Luna-FL™

Quick
Start
Guide

This Quick Start Guide provides instructions for using the Luna-FL™ automated fluorescence cell counter

For detailed instructions, refer to the user manual in the USB drive supplied with the counter or download it from www.logosbio.com. To be automatically notified about updates of the counter and for faster service, please register your counter at www.logosbio.com.

Part number: L24002

GFP transfection efficiency analysis

1. Prepare & load your sample.

- Prepare 10 μ l of negative control (e.g., non-transfected cells) and GFP transfected sample.
- Load 10~12 μ l of the mixture into the chamber port on the PhotonSlide™.
- After loading the GFP-transfected slide onto the Luna-FL, select the [GFP transfection analysis] button to activate the program.
- Use the focus knob to adjust the image.
- Find the optimal exposure level. Starting from exposure 18, lower the exposure value if the GFP signal is too strong.



2. Setting negative control

- Insert the slide containing negative control sample.
- Press the **"Set (-) Control"** button to obtain background fluorescence intensity of the negative control sample.



3. Obtaining GFP transfection efficiency

- Insert the slide containing GFP-transfected sample.
- Press the **"Count Sample"** button to obtain the GFP transfection efficiency. Be sure to set the same exposure level both for the negative control and the GFP sample.



4. (Optional) Fluorescence intensity based gating

- Press **"Graph/Gating"** button to view the fluorescence intensity histogram.
- Adjust proper gating range and press the **"Apply"** button.



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