

Lumi-Glow™ *Renilla* Luciferase Assay System

海肾荧光素酶检测试剂盒说明书

(R6501, R6502, R6503)

一. 产品描述

Lumi-Glow™ 海肾荧光素酶检测试剂盒用于定量检测细胞或其它样品中的海肾荧光素酶 (*Renilla luciferase*) 含量。该试剂具有信噪比高、重复性好、稳定性好的特点。信号半衰期超过 2 小时。简便的配方减少了先裂解后检测的实验步骤，从而进一步减少了因为频繁加样导致的误差，且其稳定的辉光信号使该产品尤其适合高通量的样品检测。

二. 产品组成

海肾荧光素酶缓冲液灌装于 10 ml 或 100 ml 的棕色瓶中，底物分装于 2ml 管中，三种规格如下表所示：

目录号	规格	可检测的 96-孔板孔数	可检测的 384-孔板孔数
R6501	Buffer, 10 ml	200 wells	800 wells
	Substrate, 100 μ l		
R6502	Buffer, 100 ml	2,000 wells	8,000 wells
	Substrate, 1 ml		
R6503	Buffer, 10X100 ml	20,000 wells	80,000 wells
	Substrate, 10x1 ml		

三. 实验步骤

- 试剂配制：取 1 体积 100x 的 Lumi-Glow™ *Renilla* 底物加到 100 体积的 Lumi-Glow™ 海肾荧光素酶缓冲液中混匀，如实验需要 5 ml 的试剂，加 50 μ l 的底物到 5 ml 的缓冲液中
- 实验前将检测试剂和检测样品平衡至室温
- 加 50 μ l 的试剂到 100 μ l 96 孔板细胞或样品板中，或 10 μ l 试剂到 20 μ l 384 孔板细胞或样品板中
- 用加样枪上下混匀细胞，或在振板机上振荡 1 分钟
- 将样品板在室温避光孵育 10 分钟，然后在适当的 luminescence 读板仪上记录发光信号

四. 储存条件

储存 Lumi-Glow™ 海肾荧光素酶检测试剂盒于 -20℃。Lumi-Glow™ 海肾荧光素酶缓冲液可储存于 4℃ 1 年。建议每次根据实验所需的试剂量新鲜配制试剂以获取最佳的实验效果

Lumi-Glow™ *Renilla* Luciferase Assay System

(F2101, F2102, F2103)

Description

Lumi-Glow™ *Renilla* luciferase assay system is the easy to use reagent for quantitatively detecting *Renilla* luciferase levels in the cells or other samples. It featured high signal to noise ratio, good reproducibility and stability. The signal half-time is over 2 hours. The convenient formulation eliminates the procedures of addition of the reagent after cell lysis, as well as decreases experiment errors generated by multiple additions. Moreover, the product is suitable for high throughput sample measurement due to the stable “glow” type luminescence.

Reagent components

Buffer was filled in the 10 ml or 100 ml reagent bottles, and substrate was filled in 2 ml tubes, three packages are showed below:

Cat#	Size	Assays for 96-well plate	Assays for 384-well plate
R6501	Buffer, 10 ml	200 wells	800 wells
	Substrate, 100 µl		
R6502	Buffer, 100 ml	2,000 wells	8,000 wells
	Substrate, 1 ml		
R6503	Buffer, 10X100 ml	20,000 wells	80,000 wells
	Substrate, 10x1 ml		

Procedures

- Reagent preparation: add 1 volume of Lumi-Glow™ *Renilla* substrate to 100 volume of Lumi-Glow™ *Renilla* buffer, i.e. add 50 µl of substrate to 5 ml of buffer to reconstitute the detection reagent
- Equilibrate the reagent and samples at RT for 10-60 min till the reagent temperature reaches room temperature. Gently mix the reagent through inverting the bottle for several times
- Add 50 µl of reagent to 100 µl of cells or samples in 96-well plate or add 10 µl of reagent to 20 µl of cells or samples in 384-well plate
- Gently mix the cells or samples
- Read the plate in the appropriate luminescence plate reader after 10 min of reagent addition

Storage conditions

Store Lumi-Glow™ *Renilla* luciferase assay kit at -20°C. It is strongly recommended that substrate and buffer are freshly mixed according to the experiment needs