



碧云天生物技术/Beyotime Biotechnology  
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## β-半乳糖苷酶报告基因检测试剂盒

产品编号	产品名称	包装
RG0036	β-半乳糖苷酶报告基因检测试剂盒	200次

### 产品简介:

- β-半乳糖苷酶报告基因检测试剂盒(β-galactosidase Assay Kit)是一种用于β-半乳糖苷酶报告基因检测的试剂盒。β-半乳糖苷酶是一种常用的报告基因分子,经常与荧光素酶报告基因一起转染细胞,被用作荧光素酶报告基因检测的内参照,从而消除因为质粒的转染效率不同而带来的误差。
- 碧云天生产的β-半乳糖苷酶报告基因检测试剂盒,是以无色的ONPG为底物,在β-半乳糖苷酶的催化下生成黄色的onitrophenol,然后通过酶标仪或分光光度计在420nm波长附近测定吸光度,从而实现对β-半乳糖苷酶活性的测定。
- 本试剂盒所提供的裂解液适合于动物细胞的裂解,通常不适合于细菌、真菌和植物细胞的裂解。
- 如果使用96孔板检测,足够测定200个样品。

### 包装清单:

产品编号	产品名称	包装
RG0036-1	报告基因细胞裂解液	100ml
RG0036-2	β-半乳糖苷酶检测试剂	10ml
RG0036-3	β-半乳糖苷酶反应终止液	35ml
—	说明书	1份

### 保存条件:

报告基因细胞裂解液4°C保存3个月有效, -20°C保存至少一年有效。β-半乳糖苷酶检测试剂-20°C避光保存至少6个月有效, -80°C避光保存至少一年有效。β-半乳糖苷酶反应终止液可以室温保存,也可以4°C或-20°C保存。

### 注意事项:

- 最佳测定波长为420nm。在410-430nm范围内测定,具有相近的灵敏度。
- 本检测试剂盒和Promega荧光素酶报告基因的裂解液兼容。用Promega荧光素酶报告基因裂解液裂解的样品可以用本试剂盒测定。
- 本产品仅限于专业人员的科学研究用,不得用于临床诊断或治疗,不得用于食品或药品,不得存放于普通住宅内。
- 为了您的安全和健康,请穿实验服并戴一次性手套操作。

### 使用说明:

1. 裂解细胞:按如下方式加入报告基因细胞裂解液,充分裂解细胞。细胞裂解后可以立即测定β-半乳糖苷酶活性,也可以先冻存,待以后再测定。冻存的样品需融解,并达到室温后才可以开始测定。建议使用12、24或48孔板进行报告基因检测。

器皿类型	96孔板	48孔板	24孔板	12孔板	6孔板
细胞裂解液(微升/孔)	100	150	200	300	500

2. 融解β-半乳糖苷酶检测试剂,并达到室温。充分融解β-半乳糖苷酶反应终止液,如有难溶结晶,请在37°C水浴溶解。
3. 在96孔板中,分别加入5-50微升样品,然后加入报告基因裂解液至最后体积为50微升。由于不同的细胞体系,不同的转染方法的转染效率相差很大。在第一次测定时推荐取两个样品作预实验。在96孔板中,分别加入0微升,5微升,10微升,25微升,50微升样品,然后加入报告基因裂解液至最后体积为50微升。
4. 在每个孔中加入β-半乳糖苷酶检测试剂50微升,混合后,盖上96孔板的盖子。可以用parafilm或保鲜膜封住96孔板防止蒸发。在37°C放置30分钟或直至样品孔内出现浅黄色。通常大约3小时后,吸光度达到平台,孵育更长时间吸光度不会明显升高。
5. 加入150微升β-半乳糖苷酶反应终止液终止反应,混匀,尽量避免气泡。
6. 按仪器操作说明书开启酶标仪或分光光度计,将测定波长设定为420nm,测定吸光度。

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