



碧云天生物技术/Beyotime Biotechnology
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Bradford蛋白浓度测定试剂盒

产品编号	产品名称	包装
P0006	Bradford蛋白浓度测定试剂盒	1000次

产品简介:

- 碧云天生产的Bradford蛋白浓度测定试剂盒(Bradford Protein Assay Kit)是根据最常用的两种蛋白浓度检测方法之一Bradford法研制而成, 实现了蛋白浓度测定的快速、稳定和高灵敏度, 并且检测数据有很好的线性关系。
- Bradford法的检测原理是考马斯亮蓝(Coomassie Brilliant Blue)G-250与蛋白质的碱性和芳香族氨基酸特别是精氨酸(Arginine)在酸性介质中结合后, 溶液转变为蓝色, 溶液最大吸收峰从465nm迁移到595nm, 颜色的变化与蛋白质浓度成正比。因此, 可通过检测595nm处的吸光度对溶液中蛋白质浓度进行测定。
- 本试剂盒检测速度极快, 10-20个样品只需不足10分钟即可完成, 和BCA法相比大大缩短了检测时间。
- 本试剂盒检测灵敏度高, 最小蛋白检测量达到0.5μg。
- 本试剂盒标准曲线的线性关系好。常规的Bradford法的标准曲线是非线性的。碧云天的本试剂盒进行了精心优化, 确保5μl体积的样品或标准品在0.1-1.5mg/ml浓度范围内有良好的线性关系(参考图1)。

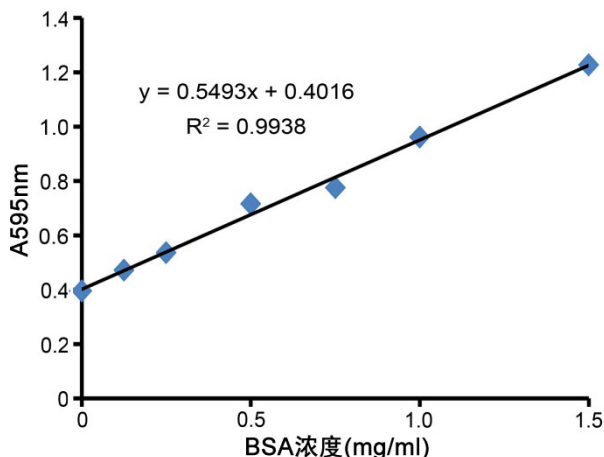


图1. 本试剂盒蛋白标准曲线的实测效果图。图中数据仅供参考, 实际的检测效果可能会略有不同。

- 与测定蛋白浓度的其它方法如BCA法和Lowry相比, Bradford法测定蛋白浓度不受绝大部分样品中的化学物质的影响, 尤其是还原试剂的影响。样品中β-巯基乙醇(β-Mercaptoethanol)的浓度可高达1M, 二硫苏糖醇(DTT)的浓度可高达5mM。但本试剂盒受略高浓度的去垢剂影响, 需确保SDS低于0.01%, Triton X-100低于0.05%, Tween 20、60、80低于0.015%。含去垢剂的样品推荐使用碧云天生产的Bradford蛋白浓度测定试剂盒(去垢剂兼容型)(P0006C)或碧云天生产的BCA蛋白浓度测定试剂盒(P0009, P0010, P0010S, P0011, P0012, P0012S)。
- Bradford蛋白浓度测定试剂盒对样品中各种物质的详细的兼容性, 请参见碧云天如下网页:
<http://www.beyotime.com/Compatibility Chart For Bradford Kit.pdf>
- 每个试剂盒可以检测 1000 个样品。

包装清单:

产品编号	产品名称	包装
P0006-1	G250染色液	125ml×2
P0006-2	蛋白标准(5mg/ml BSA)	1.5ml
—	说明书	1份

保存条件:

4°C保存, 一年有效。蛋白标准可以-20°C长期保存。

注意事项:

- 蛋白标准请在全部溶解后先混匀, 再稀释成一系列不同浓度的蛋白标准。

- 将G250染色液恢复到室温再使用，有利于提高检测的灵敏度。
- 需可检测560-610nm之间波长的酶标仪一台，最佳检测波长为595nm。并需96孔板。
- 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. 蛋白标准的准备

- 蛋白样品在什么溶液中，标准品也宜用什么溶液稀释。但是为了简便起见，如果蛋白样品所在溶液不含有干扰本试剂盒检测的物质，也可以用0.9%NaCl、PBS或水稀释标准品。蛋白标准(5mg/ml BSA)如果冻存，请完全融化并混匀后使用。
- 按照下表配制0、0.125、0.25、0.5、0.75、1、1.5mg/ml蛋白标准。每次稀释时注意充分混匀。如果有必要可以增加设置0.0625mg/ml的蛋白标准。

编号	稀释液体积	标准品体积	最终浓度
A	70μl	5mg/ml BSA 30μl	1.5mg/ml
B	30μl	从A管取60μl	1mg/ml
C	20μl	从B管取60μl	0.75mg/ml
D	30μl	从C管取60μl	0.5mg/ml
E	60μl	从D管取60μl	0.25mg/ml
F	60μl	从E管取60μl	0.125mg/ml
G	60μl	0μl	0mg/ml

2. 蛋白浓度测定

- 取5μl不同浓度蛋白标准加到96孔板的蛋白标准孔中。
- 取5μl样品到96孔板的样品孔中。如果样品不足5μl，需加标准品稀释液补足到5μl。请注意记录样品体积。
- 各孔加入250μl G250染色液。
- 用酶标仪测定A595，或560-610nm之间的其它波长的吸光度。可以立即测定吸光度，也可以在2小时内测定，2小时内检测数据无显著变化。
- 根据标准曲线和使用的样品体积计算出样品中的蛋白浓度。

相关产品：

产品编号	产品名称	包装
P0006	Bradford蛋白浓度测定试剂盒	1000次
P0006C	Braford蛋白浓度测定试剂盒(去垢剂兼容型)	800次
P0007	蛋白标准(5mg/ml BSA)	1ml
P0009	BCA蛋白浓度测定试剂盒(增强型)	5000次
P0010	BCA蛋白浓度测定试剂盒(增强型)	500次
P0010S	BCA蛋白浓度测定试剂盒(增强型)	200次
P0011	BCA蛋白浓度测定试剂盒	5000次
P0012	BCA蛋白浓度测定试剂盒	500次
P0012S	BCA蛋白浓度测定试剂盒	200次

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