

Bradford蛋白浓度测定试剂盒(去垢剂兼容型)

产品编号	产品名称	包装
P0006C	Bradford蛋白浓度测定试剂盒(去垢剂兼容型)	800次

产品简介:

- 碧云天生产的Bradford蛋白浓度测定试剂盒(去垢剂兼容型)(Detergent Compatible 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, 能兼容一系列常见去垢剂, 并且检测数据有很好的线性关系。本试剂盒的性能不仅优于常规的Bradford法, 和BCA法比也更加快速便捷。
- 本试剂盒和常规的Bradford蛋白浓度测定试剂盒相比可以兼容一系列常见的去垢剂, 和BCA法相比, 能兼容高浓度的还原剂, 并且检测速度极快, 在检测含去垢剂样品蛋白浓度时, 比BCA法更加便捷。生命科学研究中的很多蛋白样品都是含有去垢剂的, 因此常规Bradford法的使用受到了很大的限制, 通常只能使用可以兼容去垢剂但检测比较耗时的BCA法。如果使用本试剂盒, 不仅能兼容去垢剂, 而且由于能立即显色, 检测速度会比BCA法快很多。当蛋白样品中同时含有一定浓度的去垢剂和还原剂时, 常规的Bradford法和BCA法就都不能使用了, 而本试剂盒仍然是可以检测的。
- Bradford法的原理是考马斯亮兰(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0.5 μ g。
- 本试剂盒测定蛋白浓度时不受较高浓度去垢剂的影响, 可以很好地兼容1% Triton X-100、1% Tween 20、1% SDS、1% NP-40和1% Brij35等去垢剂, 同时兼容碧云天生产的多种裂解液, 包括Western及IP细胞裂解液(P0013)、RIPA裂解液(强)(P0013B)、RIPA裂解液(中)(P0013C)、RIPA裂解液(弱)(P0013D)、NP-40裂解液(P0013F)、SDS裂解液(P0013G)、Western及IP细胞裂解液(无抑制剂)(P0013J)、RIPA裂解液(强, 无抑制剂)(P0013K)(参考图1)。
- 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, 不仅能兼容上述的去垢剂, 还能确保10 μ l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)。

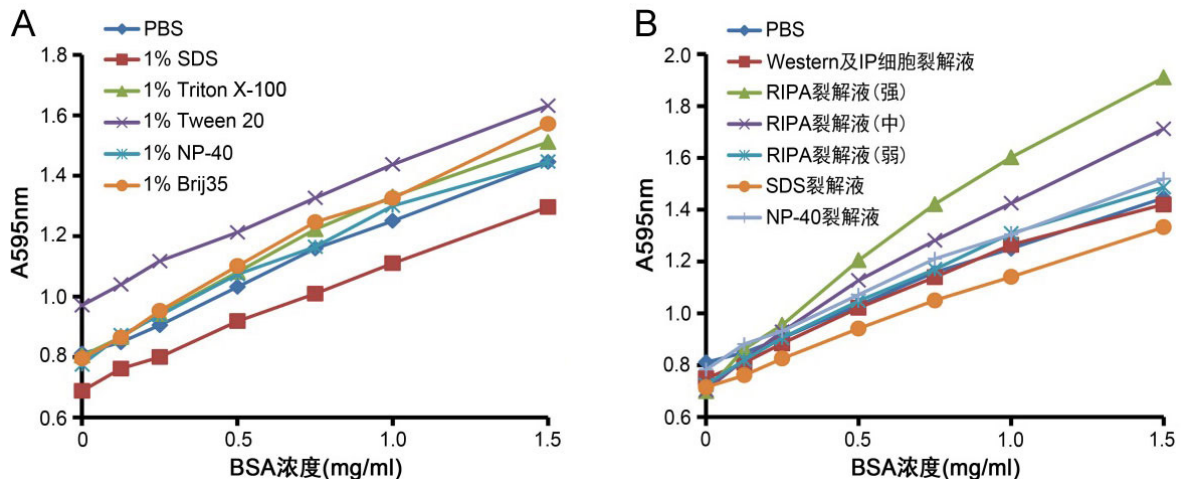


图1. 本试剂盒蛋白标准曲线及其兼容性的实测效果图。A. 本试剂盒对于常见去垢剂的兼容性。B. 本试剂盒对于碧云天的多种裂解液的兼容性。蛋白标准品配制在图中所示的溶液中进行测试。图中数据仅供参考, 实际的检测效果可能会略有不同。

- 与测定蛋白浓度的其它方法如BCA法和Lowry相比, 本试剂盒测定蛋白浓度不受绝大部分样品中的化学物质的影响, 尤其是还原剂和去垢剂的影响。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。同时本试剂盒还能兼容上述各种常见的去垢剂。BCA法能耐受各种常见的去垢剂, 但不能耐受高浓度的还原剂。
- 每个试剂盒可以检测 800 个样品。

包装清单:

产品编号	产品名称	包装
P0006C-1	G250染色液(去垢剂兼容型)	125ml \times 2
P0006C-2	蛋白标准(20mg/ml BSA)	1ml
—	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(去垢剂兼容型)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。为简便起见, 如果蛋白样品所在溶液不含有去垢剂, 也可以用0.9%NaCl、PBS或水稀释标准品。蛋白标准(20mg/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	92.5 μ l	20mg/ml BSA 7.5 μ l	1.5mg/ml
B	30 μ l	从A管取60 μ l	1mg/ml
C	20 μ l	从B管取60 μ l	0.75mg/ml
D	30 μ l	从C管取60 μ l	0.5mg/ml
E	60 μ l	从D管取60 μ l	0.25mg/ml
F	60 μ l	从E管取60 μ l	0.125mg/ml
G	60 μ l	0 μ l	0mg/ml

2. 蛋白浓度测定

- 取10 μ l不同浓度蛋白标准加到96孔板的蛋白标准孔中。
- 取10 μ l样品到96孔板的样品孔中。如果样品不足10 μ l, 需加标准品稀释液补足到10 μ l。请注意记录样品体积。
- 各孔加入300 μ l G250染色液(去垢剂兼容型)。
- 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30分钟内测定, 30分钟内检测数据无显著变化。对于不含去垢剂和含有某些去垢剂的情况, 在2小时内检测数据无显著变化; 对于含有某些特定去垢剂的情况, 在2小时内检测数据会有一些的变化, 但仍然会呈现较好的线性关系。
- 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

使用本产品的文献:

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