



碧云天生物技术/Beyotime Biotechnology
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一氧化氮检测试剂盒

产品编号	产品名称	包装
S0021	一氧化氮检测试剂盒	500次

产品简介:

- 碧云天生产的一氧化氮检测试剂盒采用了经典的Griess Reagent, 并对其测定的溶液体系进行了优化, 使检测下限达到 $1\mu\text{M}$, 在 $1-100\mu\text{M}$ 范围内有非常完美的线性关系。
- 检测速度极快, 完成一条标准曲线或5-10个样品的测定只需3分钟。
- 样品范围广, 可以检测细胞或组织及其培养液中的一氧化氮的含量, 酚红和10%血清均对测定无明显干扰, 也可以检测血清、血浆和尿液中一氧化氮的含量。

包装清单:

产品编号	产品名称	包装
S0021-1	1M NaNO_2	1ml
S0021-2	Griess Reagent I	25ml
S0021-3	Griess Reagent II	25ml
—	说明书	1份

保存条件:

4°C 避光保存。本试剂盒在自订购之日起4个月内有效。

注意事项:

- 本产品对人体有害, 操作时请小心, 并注意有效防护以避免直接接触人体或吸入体内。
- 如保存不当导致溶液变色或沉淀, 则说明该溶液已经失效, 请购买新的试剂盒。
- 不建议使用RIPA裂解液对细胞或者组织进行裂解, 使用RIPA裂解液可能在后续反应中产生沉淀, 影响测试。推荐使用碧云天的细胞与组织裂解液(一氧化氮检测用)(S3090)或Western及IP细胞裂解液(P0013)。
- 对于血清样品中NO含量的测定, 粗略地计算, 可以直接用水稀释标准品, 从而计算出血清样品中NO的浓度。比较精确地计算, 如果测定的正常血清是常见血清可以从文献上查到其中NO的浓度, 然后用该已知NO浓度的血清稀释标准品, 这样就可以得到比较精确的NO浓度。或者使用已知浓度的人或其它动物的血清稀释标准品也同样可以达到目的。或者参照类似文献进行血清中NO浓度的测定。
- 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. 取出Griess Reagent I和II, 使回复室温。
2. 用待测样品所用溶液稀释标准品($1-100\mu\text{M}$)。
例如样品为细胞培养液上清, 细胞培养液为DMEM+10%FBS, 则用DMEM+10%FBS稀释标准品。通常标准品的浓度可取0, 1, 2, 5, 10, 20, 40, 60, $100\mu\text{M}$ 。
3. 按 $50\mu\text{l}$ /孔, 在96孔板中加入标准品及样品。
样品为培养液上清, 可以直接取样, 如果有可沉淀物则需离心后取上清。如样品为细胞或组织, 可以快速冻融裂解, 然后离心沉淀取上清, 体积不足 $50\mu\text{l}$ 可以用重蒸水或0.9% NaCl稀释(相应地标准品也需用重蒸水或0.9% NaCl稀释)。细胞或组织也可以用用于Western或IP的裂解液(无需添加抑制剂)裂解, 同样标准品也需相应稀释。推荐使用碧云天生产的细胞与组织裂解液(一氧化氮检测用)(S3090)或Western及IP细胞裂解液(P0013); 不建议使用RIPA裂解液。
4. 按 $50\mu\text{l}$ /孔, 在各孔中加入室温Griess Reagent I。
5. 按 $50\mu\text{l}$ /孔, 各孔中加入室温Griess Reagent II。
6. 540nm 测定吸光度。
如无 540nm 滤光片, $520-560\text{nm}$ 的滤光片也可。如无酶标仪或合适的滤光片, 也可以通过目测比色, 确定样品中一氧化氮的浓度。目测比色时标准品需要更为精细的浓度梯度。

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