



碧云天生物技术/Beyotime Biotechnology
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10% SDS-PAGE下层胶预混液

产品编号	产品名称	包装
P0670-250ml	10% SDS-PAGE下层胶预混液	250ml
P0670-500ml	10% SDS-PAGE下层胶预混液	500ml

产品简介:

- 碧云天生产的10% SDS-PAGE下层胶预混液(10% SDS-PAGE Resolving Gel Master Mix)提供了简单而又超快速地配制10% SDS-PAGE凝胶(即SDS聚丙烯酰胺凝胶)下层胶所需的主要试剂, 包括Tris-HCl (pH8.8)、Acr-Bis(29:1)、SDS等。
- 碧云天生产的SDS-PAGE下层胶预混液系列产品有6%、8%、10%、12%和15%共5种常见浓度供您选择, 如您需要配制其他浓度凝胶, 可以考虑购买P0012AC SDS-PAGE凝胶快速配制试剂盒、P0012A SDS-PAGE凝胶配制试剂盒, 或单独购买ST003 Acr-Bis(29:1)、ST628 10%SDS和ST788 Tris-HCl (pH8.8)等进行各种不同浓度SDS-PAGE凝胶的配制。
- 本下层胶预混液已经把10%的SDS-PAGE凝胶配制所需的Tris-HCl (pH8.8)、Acr-Bis(29:1)、SDS等预混合好, 使用前仅需加入适量凝胶聚合催化剂(过硫酸铵或其替代物, 如ST005 Ammonium persulfate substitute)和ST728 TEMED即可简单快速地完成下层胶(分离胶)的配制。
- 下层胶配制完成后, 可以直接配合使用SDS-PAGE上层胶预混液(P0683), 轻松超快速完成10% SDS-PAGE凝胶的配制。也可以直接选购10% SDS-PAGE凝胶超快速配制试剂盒(P0690)。
- 本产品的250ml包装约可配制30-50块常规大小的10% SDS-PAGE凝胶的下层胶, 500ml包装约可配制60-100块常规大小的10% SDS-PAGE凝胶的下层胶。具体可以配制的凝胶数量和凝胶的厚薄以及凝胶的大小有关。

包装清单:

产品编号	产品名称	包装
P0670-250ml	10% SDS-PAGE下层胶预混液	250ml
P0670-500ml	10% SDS-PAGE下层胶预混液	500ml
—	说明书	1份

保存条件:

4°C避光保存, 一年有效。

注意事项:

- 进行下层胶配制时, 需要另外准备过硫酸铵或其替代物(ST005)以及TEMED (ST728)。
- 本产品含有Acr-Bis, 对人体有毒, 操作时请特别小心, 并注意有效防护以避免直接接触人体或吸入体内。
- 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. 根据目的蛋白的分子量大小选择合适浓度的SDS-PAGE下层胶(即分离胶)。
不同浓度的SDS-PAGE分离胶的最佳分离范围如下:

SDS-PAGE分离胶浓度	最佳分离范围
6%胶	50-150kD
8%胶	30-90kD
10%胶	20-80kD
12%胶	12-60kD
15%胶	10-40kD

2. 称取适量过硫酸铵或其替代物, 如ST005, 用双蒸水或其它高纯度的水配制10%溶液。过硫酸铵或其替代物配成溶液后容易失效, 需注意存放及时间限制。
3. 参考下表, 在10% SDS-PAGE下层胶预混液中, 按照1%的比例加入相应量的10%过硫酸铵或其替代物溶液, 按照0.04%的比例加入相应量的TEMED。例如10ml 10% SDS-PAGE下层胶预混液中, 加入100μl 10%过硫酸铵或其替代物溶液和4μl TEMED。适当混匀后倒入到制胶模具中, 用异丙醇、0.1% SDS或蒸馏水封住液面, 直至下层胶凝固充分。通常10-30分钟内胶会凝固。
注: 具体的凝固时间和温度及光照有关, 说明书中10%过硫酸铵或其替代物和TEMED的正常推荐用量是室温为25°C时的推荐用量。为达到与25°C时相近的凝固时间, 当室温低于25°C时, 可以适当同时加大10%过硫酸铵或其替代物和TEMED的用量, 例如

20°C时建议用量是正常推荐用量的1.5倍，15°C时建议用量是正常推荐用量的2倍。

成分	配制不同体积 SDS-PAGE 下层胶所需各成分的体积(毫升)					
10% SDS-PAGE 下层胶预混液	5	10	15	20	30	50
10%过硫酸铵或其替代物	0.05	0.1	0.15	0.2	0.3	0.5
TEMED	0.002	0.004	0.006	0.008	0.012	0.02

- 在下层胶凝固后，将其上面用于封胶的液体倒掉并吸干后，即可进行SDS-PAGE上层胶的配制。可以自行配制上层胶也可选用碧云天SDS-PAGE上层胶预混液(P0683)进行配制。
- 配制好的凝胶如果当天不能使用，可以在4°C保存1-2天后使用。

相关产品：

产品编号	产品名称	包装
P0012A	SDS-PAGE凝胶配制试剂盒	可制30-50块胶
P0012AC	SDS-PAGE凝胶快速配制试剂盒	可制30-50块胶
P0676-250ml	6% SDS-PAGE下层胶预混液	250ml
P0676-500ml	6% SDS-PAGE下层胶预混液	500ml
P0678-250ml	8% SDS-PAGE下层胶预混液	250ml
P0678-500ml	8% SDS-PAGE下层胶预混液	500ml
P0670-250ml	10% SDS-PAGE下层胶预混液	250ml
P0670-500ml	10% SDS-PAGE下层胶预混液	500ml
P0672-250ml	12% SDS-PAGE下层胶预混液	250ml
P0672-500ml	12% SDS-PAGE下层胶预混液	500ml
P0675-250ml	15% SDS-PAGE下层胶预混液	250ml
P0675-500ml	15% SDS-PAGE下层胶预混液	500ml
P0683-250ml	SDS-PAGE上层胶预混液	250ml
P0683-500ml	SDS-PAGE上层胶预混液	500ml
P0686	6% SDS-PAGE凝胶超快速配制试剂盒	可制30-50块胶
P0688	8% SDS-PAGE凝胶超快速配制试剂盒	可制30-50块胶
P0690	10% SDS-PAGE凝胶超快速配制试剂盒	可制30-50块胶
P0692	12% SDS-PAGE凝胶超快速配制试剂盒	可制30-50块胶
P0695	15% SDS-PAGE凝胶超快速配制试剂盒	可制30-50块胶
ST005	Ammonium persulfate substitute (APS substitute)	10g
ST728	TEMED	10ml

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