



碧云天生物技术/Beyotime Biotechnology
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SDS-PAGE凝胶快速配制试剂盒

产品编号	产品名称	包装
P0012AC	SDS-PAGE 凝胶快速配制试剂盒	可制30-50块胶

产品简介:

- 碧云天生产的SDS-PAGE凝胶快速配制试剂盒(SDS-PAGE Gel Quick Preparation Kit)提供了配制SDS-PAGE凝胶所需的各种试剂, 用户只需自备制胶器具和蒸馏水, 即可配制SDS-PAGE胶(即SDS聚丙烯酰胺凝胶)。
- 本试剂盒中把凝胶配制所需的缓冲试剂、SDS等预混合成下层胶缓冲液(4X)和上层胶缓冲液(4X), 简化了凝胶配制的步骤。下层胶缓冲液中含Tris pH8.8及适量SDS, 上层胶缓冲液中含Tris pH6.8及适量SDS。
- 本试剂盒约可配制30-50块常规大小的PAGE胶。

包装清单:

产品编号	产品名称	包装
P0012AC-1	30% Acr-Bis (29:1)	100ml
P0012AC-2	下层胶缓冲液(4X)	70ml
P0012AC-3	上层胶缓冲液(4X)	30ml
P0012AC-4	凝胶聚合催化剂	0.5g
P0012AC-5	TEMED Substitute	0.5ml
—	说明书	1份

保存条件:

下层胶缓冲液(4X)、上层胶缓冲液(4X)和凝胶聚合催化剂室温保存。30% Acr-Bis (29:1)和TEMED Substitute 4°C避光保存。凝胶聚合催化剂用水配制成10%溶液后, 分装成小管-20°C保存, 通常半年内有效。

注意事项:

- 凝胶聚合催化剂配制成10%溶液后, 应当-20°C保存。同时应尽量减少室温存放时间, 以防失效。
- TEMED Substitute易挥发, 使用后请盖紧瓶盖。另外凝胶凝聚的速度和温度及光照关系密切, 可通过适当调节凝胶聚合催化剂和TEMED Substitute的用量, 控制在不同的室内环境下凝胶凝聚的速度。
- 温度较低时, 下层胶缓冲液(4X)和上层胶缓冲液(4X)中的SDS可能析出。此时需水浴温育, 并在完全溶解和混匀后使用。
- TEMED Substitute易燃, 有腐蚀性, 操作时请小心, 并注意有效防护以避免直接接触人体或腐蚀其他物品。
- 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的凝胶浓度, 再按照下面的表格配制SDS-PAGE的分离胶(即下层胶):

不同浓度的SDS-PAGE分离胶的最佳分离范围:

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

成分	配制不同体积SDS-PAGE分离胶所需各成分的体积(毫升)					
6%胶	5	10	15	20	30	50
蒸馏水	2.7	5.4	8.1	10.8	16.2	27
30%Acr-Bis(29:1)	1.0	2.0	3.0	4.0	6.0	10.0
下层胶缓冲液(4X)	1.25	2.5	3.75	5.0	7.5	12.5
10%凝胶聚合催化剂	0.05	0.1	0.15	0.2	0.3	0.5

TEMED Substitute	0.004	0.008	0.012	0.016	0.024	0.04
成分	配制不同体积SDS-PAGE分离胶所需各成分的体积(毫升)					
8%胶	5	10	15	20	30	50
蒸馏水	2.4	4.7	7.1	9.5	14.2	23.7
30% Acr-Bis(29:1)	1.3	2.7	4.0	5.3	8.0	13.3
下层胶缓冲液(4X)	1.25	2.5	3.75	5.0	7.5	12.5
10%凝胶聚合催化剂	0.05	0.1	0.15	0.2	0.3	0.5
TEMED Substitute	0.003	0.006	0.009	0.012	0.018	0.03
成分	配制不同体积SDS-PAGE分离胶所需各成分的体积(毫升)					
10%胶	5	10	15	20	30	50
蒸馏水	2.0	4.1	6.1	8.1	12.2	20.3
30% Acr-Bis(29:1)	1.7	3.3	5.0	6.7	10.0	16.7
下层胶缓冲液(4X)	1.25	2.5	3.75	5.0	7.5	12.5
10%凝胶聚合催化剂	0.05	0.1	0.15	0.2	0.3	0.5
TEMED Substitute	0.002	0.004	0.006	0.008	0.012	0.02
成分	配制不同体积SDS-PAGE分离胶所需各成分的体积(毫升)					
12%胶	5	10	15	20	30	50
蒸馏水	1.7	3.4	5.1	6.8	10.2	17.0
30% Acr-Bis(29:1)	2.0	4.0	6.0	8.0	12.0	20.0
下层胶缓冲液(4X)	1.25	2.5	3.75	5.0	7.5	12.5
10%凝胶聚合催化剂	0.05	0.1	0.15	0.2	0.3	0.5
TEMED Substitute	0.002	0.004	0.006	0.008	0.012	0.02
成分	配制不同体积SDS-PAGE分离胶所需各成分的体积(毫升)					
15%胶	5	10	15	20	30	50
蒸馏水	1.2	2.4	3.6	4.8	7.2	12.0
30% Acr-Bis(29:1)	2.5	5.0	7.5	10.0	15.0	25.0
下层胶缓冲液(4X)	1.25	2.5	3.75	5.0	7.5	12.5
10%凝胶聚合催化剂	0.05	0.1	0.15	0.2	0.3	0.5
TEMED Substitute	0.002	0.004	0.006	0.008	0.012	0.02

2. 按照如下表格配制SDS-PAGE的浓缩胶(也称堆积胶、积层胶或上层胶):

成分	配制不同体积SDS-PAGE浓缩胶所需各成分的体积(毫升)					
5%胶	2	3	4	6	8	10
蒸馏水	1.17	1.75	2.33	3.5	4.7	5.8
30% Acr-Bis(29:1)	0.33	0.5	0.67	1.0	1.3	1.7
上层胶缓冲液(4X)	0.5	0.75	1	1.5	2	2.5
10%凝胶聚合催化剂	0.02	0.03	0.04	0.06	0.08	0.1
TEMED Substitute	0.002	0.003	0.004	0.006	0.008	0.01

注: 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%凝胶聚合催化剂和TEMED Substitute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%凝胶聚合催化剂和TEMED Substitute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。

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