



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

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

产品简介:

- 碧云天生产的SDS-PAGE凝胶配制试剂盒提供了配制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PAGE胶(即聚丙烯酰胺凝胶)。
- SDS-PAGE凝胶配制试剂盒不仅可用于配制SDS-PAGE凝胶, 也可用于配制非变性(native)PAGE凝胶。
- 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
P0012A-1	30% Acr-Bis (29:1)	100ml
P0012A-2	1M Tris-HCl, pH8.8	100ml
P0012A-3	10% SDS	5ml
P0012A-4	凝胶聚合催化剂	0.5g
P0012A-5	TEMED Substitute	0.5ml
P0012A-6	1M Tris-HCl, pH6.8	15ml
—	说明书	1份

保存条件:

1M Tris-HCl, pH8.8、10% SDS、凝胶聚合催化剂和1M Tris-HCl, pH6.8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:

- 凝胶聚合催化剂用水配制成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。
- 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:

- 10%凝胶聚合催化剂的配制: 例如称取0.1g凝胶聚合催化剂, 用水溶解, 并定容至1ml, 即为10%凝胶聚合催化剂。
- 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):

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	2.0	4.0	6.0	8.0	12.0	20.0
30%Acr-Bis(29:1)	1.0	2.0	3.0	4.0	6.0	10.0
1M Tris, pH8.8	1.9	3.8	5.7	7.6	11.4	19.0
10%SDS	0.05	0.1	0.15	0.2	0.3	0.5

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	1.7	3.3	5	6.7	10.0	16.7
30% Acr-Bis(29:1)	1.3	2.7	4.0	5.3	8.0	13.3
1M Tris, pH8.8	1.9	3.8	5.7	7.6	11.4	19.0
10% SDS	0.05	0.1	0.15	0.2	0.3	0.5
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	1.3	2.7	4.0	5.3	8.0	13.3
30% Acr-Bis(29:1)	1.7	3.3	5.0	6.7	10.0	16.7
1M Tris, pH8.8	1.9	3.8	5.7	7.6	11.4	19.0
10% SDS	0.05	0.1	0.15	0.2	0.3	0.5
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	1.0	2.0	3.0	4.0	6.0	10.0
30% Acr-Bis(29:1)	2.0	4.0	6.0	8.0	12.0	20.0
1M Tris, pH8.8	1.9	3.8	5.7	7.6	11.4	19.0
10% SDS	0.05	0.1	0.15	0.2	0.3	0.5
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	0.5	1.0	1.5	2.0	3.0	5.0
30% Acr-Bis(29:1)	2.5	5.0	7.5	10.0	15.0	25.0
1M Tris, pH8.8	1.9	3.8	5.7	7.6	11.4	19.0
10% SDS	0.05	0.1	0.15	0.2	0.3	0.5
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

注：如果配制非变性胶，参考上述配方，不加10% SDS即可配制成非变性PAGE胶。

3. 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	1.4	2.1	2.7	4.1	5.5	6.8
30% Acr-Bis(29:1)	0.33	0.5	0.67	1.0	1.3	1.7
1M Tris, pH6.8	0.25	0.38	0.5	0.75	1.0	1.25
10% SDS	0.02	0.03	0.04	0.06	0.08	0.1
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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