

SDS-PAGE Gel Preparation Kit

Catalog# BWR1029

Size: 1 kit (enough for preparing 30-50 pieces of PAGE gel).

Lot # Check on the product label

Introduction

SDS-PAGE Gel Preparation Kit contains various reagents for SDS-PAGE Gel Preparation, end user just need to prepare the experimental instruments and double distilled water separately. It can be used for preparing SDS-PAGE gel and native PAGE gel. This Kit is enough for preparing 30-50 pieces of PAGE gel with normal size.

Kit Components

Components	Size	Storage Instruction
30% Acr-Bis (29:1)	100 ml	4°C in dark
1.5 M Tris-HCl, pH8.8	100 ml	4°C
10% SDS	5 ml	4°C
Ammonium persulfate	0.5 g	Store at 4°C. Before use, prepare to 10% AP solution with double distilled water, then, aliquot and store at -20°C for 6 months.
TEMED	0.5 ml	4°C in dark
1.0 M Tris-HCl, pH6.8	15 ml	4°C

Protocol

1. Choose the proper concentration of gel according to the molecular weight of target protein.

SDS-PAGE separation gel concentration (%)	Molecular weight of target protein (kDa)
6% Gel	50-150 kDa
8% Gel	30-90 kDa
10% Gel	20-80 kDa
12% Gel	12-60 kDa
15% Gel	10-40 kDa

2. SDS-PAGE separation gel

Component	The volume of the components needed (ml)					
6% Gel	5	10	15	20	30	50
Double distilled water	2.6	5.3	7.9	10.5	15.8	26.3
30% Acr-Bis (29:1)	1.0	2.0	3.0	4.0	6.0	10.0

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1.5 M Tris, pH8.8	1.3	2.5	3.8	5.1	7.6	12.7
10% SDS	0.05	0.1	0.15	0.2	0.3	0.5
10% Ammonium persulfate	0.05	0.1	0.15	0.2	0.3	0.5
TEMED	0.004	0.008	0.012	0.016	0.024	0.04
Component	The volume of the components needed (ml)					
8% Gel	5	10	15	20	30	50
Double distilled water	2.3	4.6	6.9	9.2	13.8	23
30% Acr-Bis (29:1)	1.3	2.7	4.0	5.3	8.0	13.3
1.5 M Tris, pH8.8	1.3	2.5	3.8	5.1	7.6	12.7
10% SDS	0.05	0.1	0.15	0.2	0.3	0.5
10% Ammonium persulfate	0.05	0.1	0.15	0.2	0.3	0.5
TEMED	0.003	0.006	0.009	0.012	0.018	0.03
Component	The volume of the components needed (ml)					
10% Gel	5	10	15	20	30	50
Double distilled water	1.9	4.0	5.9	7.8	11.8	19.6
30% Acr-Bis (29:1)	1.7	3.3	5.0	6.7	10.0	16.7
1.5 M Tris, pH8.8	1.3	2.5	3.8	5.1	7.6	12.7
10% SDS	0.05	0.1	0.15	0.2	0.3	0.5
10% Ammonium persulfate	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
Component	The volume of the components needed (ml)					
12% Gel	5	10	15	20	30	50
Double distilled water	1.6	3.3	4.9	6.5	9.8	16.3
30% Acr-Bis (29:1)	2.0	4.0	6.0	8.0	12.0	20.0
1.5 M Tris, pH8.8	1.3	2.5	3.8	5.1	7.6	12.7
10% SDS	0.05	0.1	0.15	0.2	0.3	0.5

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10% Ammonium persulfate	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

Component	The volume of the components needed (ml)					
15% Gel	5	10	15	20	30	50
Double distilled water	1.1	2.3	3.4	4.5	6.8	11.3
30% Acr-Bis (29:1)	2.5	5.0	7.5	10.0	15.0	25.0
1.5 M Tris, pH8.8	1.3	2.5	3.8	5.1	7.6	12.7
10% SDS	0.05	0.1	0.15	0.2	0.3	0.5
10% Ammonium persulfate	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

Notes: To prepare the native PAGE gel, take the above formula as reference, just need NOT add the 10% SDS.

3. SDS-PAGE spacer gel

Component	The volume of the components needed (ml)					
5% Gel	2	3	4	6	8	10
Double distilled water	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
1 M 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% Ammonium persulfate	0.02	0.03	0.04	0.06	0.08	0.1
TEMED	0.002	0.003	0.004	0.006	0.008	0.01

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