

SDS-PAGE Gel Preparation Kit

Catalogue No.: abx090646

Abbexa's SDS-PAGE Gel Preparation Kit contains reagents for preparation of 30-50 pieces of normal-sized PAGE gel. This kit can be used to prepare SDS-PAGE gel and native PAGE gel.

Kit components:

- 30% Acr-Bis (29:1): 100 ml
- 1.5 M Tris-HCl (pH 8.8): 100 ml
- 10% SDS: 5 ml
- Ammonium persulfate: 0.5 g
- TEMED: 0.5 ml
- 1.0 M Tris-HCl (pH 6.8): 15 ml

Gel concentration:

SDS-PAGE Separation Gel Concentration	Molecular Weight of Target Protein
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

Preparing SDS-PAGE separation gel (for native PAGE gel, do not add 10% SDS):

Component	Volume (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
1.5 M Tris (pH 8.8)	1.3	2.5	3.8	5.1	7.6	12.7
10% SDS	0.05	0.10	0.15	0.20	0.30	0.50
10% Ammonium persulfate	0.05	0.10	0.15	0.20	0.30	0.50
TEMED	0.004	0.008	0.012	0.016	0.024	0.040

Component	Volume (ml)					
8% Gel	5	10	15	20	30	50
Double-distilled water	2.3	4.6	6.9	9.2	13.8	23.0
30% Acr-Bis (29:1)	1.3	2.7	4.0	5.3	8.0	13.3
1.5 M Tris (pH 8.8)	1.3	2.5	3.8	5.1	7.6	12.7

Datasheet

Version: 6.0.0

Revision date: 21 Mar 2025

10% SDS	0.05	0.10	0.15	0.20	0.30	0.50
10% Ammonium persulfate	0.05	0.10	0.15	0.20	0.30	0.50
TEMED	0.003	0.006	0.009	0.012	0.018	0.030

Component	Volume (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 (pH 8.8)	1.3	2.5	3.8	5.1	7.6	12.7
10% SDS	0.05	0.10	0.15	0.20	0.30	0.50
10% Ammonium persulfate	0.05	0.10	0.15	0.20	0.30	0.50
TEMED	0.002	0.004	0.006	0.008	0.012	0.020

Component	Volume (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 (pH 8.8)	1.3	2.5	3.8	5.1	7.6	12.7
10% SDS	0.05	0.10	0.15	0.20	0.30	0.50
10% Ammonium persulfate	0.05	0.10	0.15	0.20	0.30	0.50
TEMED	0.002	0.004	0.006	0.008	0.012	0.020

Component	Volume (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 (pH 8.8)	1.3	2.5	3.8	5.1	7.6	12.7
10% SDS	0.05	0.10	0.15	0.20	0.30	0.50
10% Ammonium persulfate	0.05	0.10	0.15	0.20	0.30	0.50
TEMED	0.002	0.004	0.006	0.008	0.012	0.020

Preparing SDS-PAGE spacer gel:

Component	Volume (ml)					
5% Gel	2	3	4	6	8	10

Datasheet

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Double-distilled water	1.4	2.1	2.7	4.1	5.5	6.8
30% Acr-Bis (29:1)	0.33	0.50	0.67	1.00	1.30	1.70
1 M Tris (pH 6.8)	0.25	0.38	0.50	0.75	1.00	1.25
10% SDS	0.02	0.03	0.04	0.06	0.08	0.10
10% Ammonium persulfate	0.02	0.03	0.04	0.06	0.08	0.10
TEMED	0.002	0.003	0.004	0.006	0.008	0.010

Tested Applications: WB

Storage: Store all reagents at 4 °C. 30% Acr-Bis and TEMED should be stored in the dark. Before use, prepare a 10% Ammonium persulfate solution using double-distilled water, which can then be aliquoted and stored at -20 °C for up to 6 months.

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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