

## PRODUCT DATA SHEET



### SDS-PAGE Gel Preparation Kit Datasheet

#### Introduction:

SDS-PAGE gel preparation kit can be used not only for the preparation of SDS-PAGE gel, but also for the preparation of non denatured (native) PAGE gel. The kit can prepare about 30-50 pieces of PAGE adhesive of normal size.

#### Contents:

Cat No.: BD0035

BD0035-A	30% Acr-Bis (29:1)	100ml
BD0035-B	Tris- Hydrochloric acid separating gel buffer	60ml
BD0035-C	Tris- Hydrochloric acid spacer gel buffer	20ml
BD0035-D	10% Ammonium persulfate	5ml
BD0035-E	10% SDS	5ml
BD0035-F	TEMED	500ul

#### Procedure:

1. According to the molecular weight of the target protein, choose the appropriate gel concentration, and then prepare the SDS-PAGE separation adhesive (the lower layer glue) according to the following table:

The optimum separation range of SDS-PAGE gels with different concentration:

SDS-PAGE Resolving Gel Concentration	Optimum separation range
6% Gel	100-350kD
8% Gel	60-1500kD
10% Gel	40-80kD
12% Gel	20-60kD
15% Gel	10-30kD

Composition	Volume of components required for preparation of SDS-PAGE gels (ml)					
6% Gel	5	10	15	20	30	50
distilled water	2.6	5.3	7.9	10.6	15.9	26.5
30% Acr-Bis(29:1)	1.0	2.0	3.0	4.0	6.0	10.0
1M Tris, pH8.8	1.3	2.6	3.9	5.2	7.8	13
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
Composition	Volume of components required for preparation of SDS-PAGE gels (ml)					
8% Gel	5	10	15	20	30	50
distilled water	2.3	4.6	6.9	9.3	13.9	23.2
30% Acr-Bis(29:1)	1.3	2.7	4.0	5.3	8.0	13.3
1M Tris, pH8.8	1.3	2.6	3.9	5.2	7.8	13
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

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TEMED	0.003	0.006	0.009	0.012	0.018	0.03
Composition	Volume of components required for preparation of SDS-PAGE gels (ml)					
10% Gel	5	10	15	20	30	50
distilled water	1.9	4	5.9	7.9	11.9	19.8
30% Acr-Bis(29:1)	1.7	3.3	5.0	6.7	10.0	16.7
1M Tris, pH8.8	1.3	2.6	3.9	5.2	7.8	13
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
Composition	Volume of components required for preparation of SDS-PAGE gels (ml)					
12% Gel	5	10	15	20	30	50
distilled water	1.6	3.3	5	6.7	10	16.7
30% Acr-Bis(29:1)	2.0	4.0	6.0	8.0	12.0	20.0
1M Tris, pH8.8	1.3	2.6	3.9	5.2	7.8	13
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
Composition	Volume of components required for preparation of SDS-PAGE gels (ml)					
15% Gel	5	10	15	20	30	50
distilled water	1.1	2.3	3.4	4.6	6.9	11.5
30% Acr-Bis(29:1)	2.5	5.0	7.5	10.0	15.0	25.0
1M Tris, pH8.8	1.3	2.6	3.9	5.2	7.8	13
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

Note: If the non-denaturing adhesive is prepared, the non-denaturing PAGE adhesive can be prepared without adding 10% SDS according to the above formulation.

2. Prepare the SDS-PAGE spacer gel according to the following table (also known as stacking gel, superstratum gel):

Composition	Volume of components required for preparation of SDS-PAGE gels (ml)					
5% Gel	2	3	4	6	8	10
distilled water	1.4	2.1	2.8	4.2	5.6	7.2
30% Acr-Bis(29:1)	0.27	0.4	0.54	0.8	1.1	1.4
0.5M Tris, pH6.8	0.5	0.75	1.0	1.5	2	2.5
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

### Attention:

10% Ammonium persulfate should be stored at -20°C after being packed into tubules, should avoid repeated freezing and thawing, and at the same time should minimize room temperature storage time, in order to prevent failure. TEMED is volatile. Please tighten the cap after use. In addition, the

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speed of gel agglomerate is closely related to temperature and light. By adjusting the dosage of TEMED properly, can control the speed of gelation in different indoor environments.

TEMED inflammable, corrosive, please pay attention to protection.

The product is limited to the scientific research of professionals. It can not be used for clinical diagnosis or treatment. It can not be used for food or medicine. It can not be stored in ordinary houses.

For your safety and health, please wear test clothes and disposable gloves.

### **Storage & Shelf life:**

30% Acr-Bis(29:1); 1M Tris-HCl, pH8.8 and 0.5M Tris-HCl,pH6.8 4°C; 10% SDS room temperature; TEMED 4°C place away from light; 10% APS(Ammonium persulfate) Separate into small tubes , -20°C, period of validity is above half year.

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