

SDS-PAGE BUFFERS

30:0.4 Acrylamide/bis-acrylamide Stock

[Final]	M_r /[Stock]	/100ml
30% (w/v) acrylamide	71.08	30.0 g
0.4% (w/v) bis-acrylamide	154.17	0.4 g

- Dissolve in ~70 mL MilliQ water by stirring until dissolved.
- DEIONIZE with MIXED BED RESIN (Sigma, M-8032) and filter through 0.22 μ m filter.
- Store protected from light in brown glass bottle.

4X CONCENTRATED Running Gel Buffer, pH 8.8

[Final]	M_r /[Stock]	/100ml
1.5 M Tris-HCl, pH 8.8	121.1	18.17 g
0.4% SDS	288.38	0.4 g

4X CONCENTRATED Stacking Gel Buffer, pH 6.8

[Final]	M_r /[Stock]	/100ml
0.5 M Tris-HCl, pH 8.8	121.1	6.06 g
0.4% SDS	288.38	0.4 g

10X CONCENTRATED SDS-PAGE Reservoir Buffer

[Final]	[10X]	M_r	/1 l	/ 2 L
25 mM Tris	0.25 M	121.1	30.3 g	60.6 g
192 mM Glycine	1.92 M	75.07	144.1 g	288.2 g
0.1% SDS	1.0%	—	10.0 g	20.0 g

10X CONCENTRATED Immunoblotting TRANSFER Buffer

[Final]	[10X]	M_r	/1 l	/2 l
15.6 mM Tris-HCl	0.156 M	121.1	18.9 g	37.8 g
120 mM glycine	1.2 M	75.07	90.0 g	180.0 g

10 X CONCENTRATED Tris-buffered saline + Tween (TBST) pH 7.5

[Final]	[10X]	M_r	/l l	/2 l
10 mM Tris-HCl, pH 7.5	0.1 M	121.1	12.1 g	24.2 g
150 mM NaCl	1.5 M	58.44	87.7 g	175.3 g
0.1% Tween 20	1.0%	—	10.0 g	20.0 g

SDS-PAGE RECIPIES

6.5% gel (8 ml)

acrylamide	1.7 ml
running buffer (pH 8.8)	2.0 ml
H ₂ O	4.3 ml
Temed	4 μ l
APS	48 μ l

11.0 % gel (20 ml)

acrylamide	7.4 ml
running buffer (pH 8.8)	5.0 ml
H ₂ O	7.6 ml
Temed	12 μ l
APS	120 μ l

6.5% gel (20 ml)

12.5 % gel (20 ml)

acrylamide	4.35 ml
running buffer (pH 8.8)	5.0 ml
H ₂ O	10.65 ml
Temed	12μl
APS	120 μl

acrylamide	8.4 ml
running buffer (pH 8.8)	5.0 ml
H ₂ O	6.6 ml
Temed	12 μl
APS	120 μl

8.0% gel (20 ml)

acrylamide	5.4 ml
running buffer (pH 8.8)	5.0 ml
H ₂ O	9.6 ml
Temed	12μl
APS	120 μl

14.0% gel (20 ml)

acrylamide	9.4 ml
running buffer (pH 8.8)	5.0 ml
H ₂ O	5.6 ml
Temed	12 μl
APS	120 μl

10.0% gel (20 ml)

acrylamide	6.7 ml
running buffer (pH 8.8)	5.0 ml

4.0% STACKING GEL (5 ml)

acrylamide	0.67ml
stacking buffer (pH 6.8)	1.25 ml

H ₂ O	8.3 ml
Temed	12μl
APS	120 μl

H ₂ O	3.08ml
Temed	10 μl
APS	60 μl