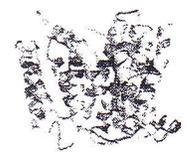


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MN STATE UNIVERSITY MOORHEAD
EST. 1998

SDS PAGE Solution Guide



GEL PREPARATION

The following recipes are more than enough for two 1.5 mm gels.
The buffers/solutions do not need to be degassed if using a minigel.

% Resolving Gel							
	6%	8%	10%	12%	14%	16%	
Soln. A (ml)	2.25	3.00	3.75	4.50	5.25	6.00	30% 8
Soln. B (ml)	3.75	3.75	3.75	3.75	3.75	3.75	4.124
H ₂ O (ml)	9.00	8.25	7.50	6.75	6.00	5.25	3.7
TEMED (μl)	10	5	5	5	5	5	16
*10% APS (μl)	*75	*75	*75	*75	*75	*75	160

*Make fresh APS and add the APS last. Once added it will start to polymerize.

<u>4% Stacking Gel</u>	<u>10X Electrophoresis Buffer</u>	<u>1X Conc.</u>
Solution A (ml) 0.60	30.0 g Tris Base	25 mM
Solution C (ml) 1.50	144.0 g Glycine	192 mM
H ₂ O (ml) 3.96	10.0 g SDS --0.1%	
10% APS (μl) 40.0	QS to 1 liter, pH should be 8.3	
TEMED (μl) 10.0		

WORKING SOLUTIONS

Solution A: (40% (w/v) acrylamide, 1.09 % (x/v) bis-acrylamide)

194.8 g acrylamide
5.2 g bis-acrylamide
QS to 500 ml w/ H₂O

Solution B: 4x Separating Gel Buffer

Dissolve 91 g Tris base in 300 ml H₂O
Adjust pH to 8.8 w/NaOH
Add 2 g SDS
QS to 500 ml with H₂O and filter

10% APS
0.5 g Ammonium persulfate
5.0 ml H₂O (stable frozen)

Solution C: 4X Stacking Buffer

Dissolve 6.05 g Tris base in 40 ml H₂O
Adjust pH to 8.8 w/NaOH
Add 0.4 g SDS
QS to 500 ml with H₂O and filter

200ml 250ml
Coomasie Gel Stain (1 liter)
20 25 1.0 g Coomasie Blue R-120
90 112.5 450 ml Methanol
90 112.5 450 ml H₂O
20 25 100 ml Glacial Acetic Acid

5X Sample buffer, 10 ml

0.6 ml 1 M Tris-HCl (pH 6.8)
5 ml 50% glycerol
0.5 ml β Mercaptoethanol
1 ml 1% Bromophenol blue
0.9 ml H₂O

Coomasie Gel Destain (1 liter)
100 ml Methanol
100 ml Glacial Acetic Acid
800 ml H₂O

WELL CAPACITY

At 1.0 mm gel thickness 10 wells = 32 μl and 15 well = 18 μl
At 1.5 mm gel thickness 10 wells = 48 μl and 15 well = 27 μl

I have read & Understood by me,	Date	Invented by:	Date
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