

Common Price Lab Solutions

<u>0.5 M HEPES</u>	500 ml	<u>1 M Tris</u>	1 L
Calbiochem Cat# 391338	59.6 g	Sigma Trizma Base Cat# T 1503	121.14 g
<i>pH to 7.8 with NaOH</i>		<i>Adjust to 7.6 or desired pH with HCl</i>	
<i>Filter (0.45 μM),</i>			
<i>Freeze aliquots</i>			
<u>5 M NaCl</u>	500 ml	<u>10 M Urea</u>	2 L
NaCl	146.1 g	Mallinckrodt or Baker Urea	1201.2 g
		<i>1 L water to 50°C to start</i>	
<u>1 M DTT</u>	25 ml	<u>10% Triton</u>	500 ml
<i>Store at -80 in 0.1–1 ml aliquots</i>	3.86 g	Triton X-100	50 ml
		<u>10% Tween</u>	250 ml
<u>10% SDS</u>	500 ml	Tween 20	25 ml
SDS	50 g		
<i>Don't breath dust</i>		<u>Phenol (water sat'd.)</u>	
		80% Phenol (IBI mol. biology grade)	
<u>HGE</u>	2 L	20% ultrapure H ₂ O	
25 mM HEPES (Calbiochem)	11.9 g	<i>Dissolve phenol in H₂O at 37-50°C</i>	
15% Glycerol (Mallinckrodt or Baker)	300 ml	<i>pH to neutral (use pH paper)</i>	
0.1 mM EDTA (from 0.5 M stock)	0.4 ml	<i>Aliquot to ~12 ml and store at -20</i>	
<i>pH to 7.6 with NaOH</i>			
<i>Filter (0.22 μM)</i>		<u>Stop solution (new)</u>	100 ml
		1% Sarkosyl	1 g
<u>HGKE</u>	2 L	50 mM Tris (from 1 M pH 8.0 stock)	5 ml
25 mM HEPES (Calbiochem)	11.9 g	0.1 M NaCl	0.58 g
15% glycerol (Mallinckrodt or Baker)	300 ml	20 mM EDTA (from 0.5 M stock)	4 ml
0.1 mM EDTA (from 0.5 M stock)	0.4 ml	200 ug/ml torula yeast RNA	0.02 g
1 M KCl	149.1 g	<u>95% EtOH/0.5 M NH₄OAc</u>	50 ml
<i>pH to 7.6 with NaOH</i>		95% Ethanol (from 100% stock)	47.5 ml
<i>Filter (0.22 μM)</i>		0.5 M NH ₄ OAc (from 10 M stock)	2.5 ml
<u>20X SSC</u>	1 L	<u>TE</u>	1 L
NaCl	175.3 g	10 mM Tris (from 1 M stock pH 7.6)	10 ml
NaCitrate	88.2 g	1 mM EDTA (from 0.5 M stock)	2 ml
		<i>Filter (0.45 μM)</i>	
<u>0.5 M EDTA</u>	500 ml	<u>10X PBS</u>	1 L
EDTA	73.05 g	NaCl	80 g
<i>pH to 8.3 with NaOH to dissolve</i>		KCl	2 g
		Na ₂ HPO ₄ (anhydrous)	11 g
		KH ₂ PO ₄	2 g
		<i>Filter (0.45 μM)</i>	

Protein gels and western blots

10X Tris-Glycine

250 mM Tris base	4 L
1.92 M Glycine	121.14 g
Filter (0.45 μ M)	576.54 g

Lower Tris

1.5 M Trizma Base	1 L
pH to 8.8	181.7g
Filter (0.45 μ M)	

Upper Tris

500 mM Trizma Base	500 ml
pH to 6.8	30.3 g
Filter (0.45 μ M)	

Transfer Buffer

Methanol	1 L
10X Tris-Glycine	200 ml
Water	100 ml
	700 ml

5X Protein loading buffer

20% Ficoll	10 ml
10% SDS	2 g
50 mM Tris (from 1M Tris pH 7.6)	1 g
Add 376 μ l 3% BPB	500 μ l
Just before use, add 1 M DTT to- achieve 50 mM	

RNA gels

10X TBE

0.89 M Trizma Base	4 L
0.89 M Boric Acid	432 g
1 mM EDTA (from 0.5 M stock)	220 g
Filter (0.45 μ M)	16 ml

RNA loading buffer

0.25X TBE (from 10X stock)	10 ml
9.35 M Urea (from 10 M stock)	250 μ l
0.0075% BPB (from 3% stock)	9.35 ml
0.03% XC dye (from 0.75% stock)	25 μ l
	375 μ l

DNA gels

5X DNA gel loading buffer

20% Ficoll	10 ml
5X TAE (from 50X TAE stock)	2 g
50 mM EDTA (from 0.5 M stock)	1 ml
BPB (from 3% stock)	1 ml
	25 μ l

50X TAE

2 M Trizma Base	1 L
1 M acetate (use glacial acetic- acid)	242 g
100 mM EDTA	57 ml
Dissolve Tris before adding glacial acetic acid	
	37.2 g