## Western Blot Buffers

## 10x/20x (run/transfer) Tris Glycine Buffer

30.3g Tris Base 114.2g Glycine Add to 1L with ddH20

to make 1x SDS running buffer, make 1L of 1X (100mL of Tris/Gly buffer stock) then add 10mL of 10% SDS – makes 0.1% SDS

to make 1L of 1x transfer, add: 50mL of Tris/Gly buffer stock 100mL (10%) methanol 850mL water

2x SDS sample buffer: 20mL glycerol 32mL 10% SDS 12.5mL Tris pH6.8 water to <u>100 mL</u> + bromophenol blue

## 10 X Phosphate Buffered Saline (PBS)

1.Dissolve 80g of NaCl, 2.0g of KCl, 14.4g of Na2PO4, and 2.4g of KH2PO4 in 800ml distilled H2O.2.Adjust pH to 7.4 with HCl.3.Adjust volume to 1L with additional distilled H2O.

1X PBS Wash Buffer: (1X PBS + 0.05% TWEEN-20 detergent) 100mL 10x PBS 2.5 mL of 20% TWEEN-20 ~900mL ddH2O \*\*\* use for blot washing and antibody dilution

Also make:

<u>1M Tris-HCl pH 6.8:</u> 15.76g in 90mL ddH2O, adjust pH to 6.8, q.s. ddH2O to 100mL

1 M Tris-HCl pH 8.8: 15.76g in 90mL ddH2O, adjust pH to 8.8, q.s. ddH2O to 100mL

<u>10% SDS solution:</u> 10g SDS in 100mL ddH2O, stir on stirplate overnight.

 $\underline{30\%\ polyacrylamide\ solution}$ : Acrylamide/Bis-acrylamide (30%/0.8% w/v), 30g acrylamide, 0.8g bis-acrylamide in 100mL ddH2O

	Final Resolving Gel Percentage			
	9%	10%	12%	15%
Stock Solution				
1M Tris pH 8.8	3.75	3.75	3.75	3.75
10% SDS	100uL	100uL	100uL	100uL
30% Acrylamide	3	3.3	4	5
H <sub>2</sub> O	3.05	2.7	2.05	1.05
10% Ammonium persulfate	100 µL	100 µL	100 µL	100 µL
TEMED	5 µL	4 µL	4 µL	4 µL
10mL total gel mix volume				

Stacking Gel Recipe				
	Vol in mL			
Stock Solution				
1M Tris pH 6.8	0.63			
10% SDS	50uL			
30% Acrylamide	0.83			
H <sub>2</sub> O	3.4			
10% Ammonium persulfate	50 µL			
TEMED	5 µL			
5mL total gel mix volume				