

## CHIP Buffers (page 1 of 2)

make fresh and add the day of the expt

<b>Cell Lysis Buffer (CLB)</b>			<b>for 1L</b>	<b>for 100 mL</b>	<b>for 50 mL</b>	<b>for 10 mL</b>
<b>Chemical</b>	<b>Stock Concentration</b>	<b>Final Concentration</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>
Tris-HCl; pH 8.0	1.0 M	10 mM	10 mL	1 mL	0.5 mL	9.37 mL
Sodium Chloride	5.0 M	10 mM	2 mL	0.2 mL	0.1 mL	of
NP40 (IGEPAL CA-630)	10% stock	0.20%	20 mL	2 mL	1 mL	stock
Butyric Acid, Na salt (Sodium Butyrate)	0.5 M	10 mM	20 mL	2 mL	1 mL	200 uL
PMSF	0.1 M	300 uM	3 mL	0.3 mL	150 uL	30 uL
25X Complete	25X	1X	40 mL	4 mL	2 mL	400 uL

<b>Nuclear Lysis Buffer (NLB)</b>			<b>for 1L</b>	<b>for 100 mL</b>	<b>for 50 mL</b>	<b>for 5 mL</b>
<b>Chemical</b>	<b>Stock Concentration</b>	<b>Final Concentration</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>
Tris-HCl; pH 8.0	1.0 M	50 mM	50 mL	5 mL	2.5 mL	4.685 mL
EDTA; pH 8.0	0.5 M	10 mM	20 mL	2 mL	1 mL	of
SDS	20% stock	1%	50 mL	5 mL	2.5 mL	stock
Butyric Acid, Na salt (Sodium Butyrate)	0.5 M	10 mM	20 mL	2 mL	1 mL	100 uL
PMSF	0.1 M	300 uM	3 mL	0.3 mL	150 uL	15 uL
25X Complete	25X	1X	40 mL	4 mL	2 mL	200 uL

<b>IP Dilution Buffer (IDB)</b>			<b>for 1L</b>	<b>for 100 mL</b>	<b>for 50 mL</b>	<b>for 10 mL</b>
<b>Chemical</b>	<b>Stock Concentration</b>	<b>Final Concentration</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>
Tris-HCl; pH 8.0	1.0 M	20 mM	20 mL	2 mL	1 mL	
EDTA; pH 8.0	0.5 M	2 mM	4 mL	0.4 mL	0.2 mL	9.37 mL
Sodium Chloride	5.0 M	150 mM	30 mL	3 mL	1.5 mL	of
SDS	20% stock	0.01%	0.5 mL	50 uL	25 uL	stock
Triton X-100	20% stock	1%	50 mL	5 mL	2.5 mL	
Butyric Acid, Na salt (Sodium Butyrate)	0.5 M	10 mM	20 mL	2 mL	1 mL	200 uL
PMSF	0.1 M	300 uM	3 mL	0.3 mL	150 uL	30 uL
25X Complete	25X	1X	40 mL	4 mL	2 mL	400 uL

## ChIP Buffers (page 2 of 2)

<b>Wash Buffer #1</b>			<b>for 1L</b>	<b>for 100 mL</b>	<b>for 50 mL</b>	<b>for 10 mL</b>
<b>Chemical</b>	<b>Stock Concentration</b>	<b>Final Concentration</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>
Tris-HCl; pH 8.0	1.0 M	20 mM	20 mL	2 mL	1 mL	200 µL
EDTA; pH 8.0	0.5 M	2 mM	4 mL	0.4 mL	0.2 mL	40 µL
Sodium Chloride	5.0 M	50 mM	10 mL	1 mL	0.5 mL	100 µL
SDS	20% stock	0.1%	5 mL	0.5 mL	0.25 mL	50 µL
Triton X-100	20% stock	1%	50 mL	5 mL	2.5 mL	500 µL

<b>Wash Buffer #2</b>			<b>for 1L</b>	<b>for 100 mL</b>	<b>for 50 mL</b>	<b>for 10 mL</b>
<b>Chemical</b>	<b>Stock Concentration</b>	<b>Final Concentration</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>
Tris-HCl; pH 8.0	1.0 M	10 mM	10 mL	1 mL	0.5 mL	100 µL
EDTA; pH 8.0	0.5 M	1 mM	2 mL	0.2 mL	0.1 mL	20 µL
Lithium Chloride	2.0 M	250 mM	125 mL	12.5 mL	6.25 mL	1.25 mL
NP40 (IGEPAL CA-630)	10% stock	1%	100 mL	10 mL	5 mL	1 mL
Deoxycholic Acid, Sodium Salt	10% stock	1%	100 mL	10 mL	5 mL	1 mL

<b>Elution Buffer (EB)</b>			<b>for 1L</b>	<b>for 100 mL</b>	<b>for 50 mL</b>	<b>for 10 mL</b>
<b>Chemical</b>	<b>Stock Concentration</b>	<b>Final Concentration</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>
Sodium Bicarbonate	1.0 M	100 mM	100 mL	10 mL	5 mL	1 mL
SDS	20% stock	1%	50 mL	5 mL	2.5 mL	0.5 mL

<b>TE (need to Sterifilter)</b>			<b>for 1L</b>	<b>for 100 mL</b>	<b>for 50 mL</b>	<b>for 10 mL</b>
<b>Chemical</b>	<b>Stock Concentration</b>	<b>Final Concentration</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>	<b>Amount Needed</b>
Tris-HCl; pH 8.0	1.0 M	10 mM	10 mL	1 mL	0.5 mL	100 µL
EDTA; pH 8.0	0.5 M	1 mM	2 mL	0.2 mL	0.1 mL	20 µL