

Buffers
(Alphabetical Order, Updated September 2, 2010)

Borate Buffer (0.1 M, Filter Sterilized) – Store at 4°C:

1.24 g	Boric Acid
1.90 g	Sodium Tetraborate
Up to 400 mL	MilliQ H ₂ O (Autoclaved)

* Adjust pH to 8.5 and filter sterilize (in the hood).

Lysis/Immunoprecipitation Buffer (pH 7.4) – Store at 4°C:

10 mL	Tris-HCl (1M, pH 7.4)	20 mM
13.7 mL	NaCl (5 M)	137 mM
2.5 mL	NP-40	0.5%
50 mL	Glycerol	
Up to 500 mL	MilliQ H ₂ O	

Add FRESH Inhibitors when ready to use*:

100 □ L*	PMSF	1 mM
1 tablet *	Complete-Mini tablet from Roche	

* For 10 mL Lysis Buffer! Store at 4°C for up to 1 month.

PBS (10X):

80 g	NaCl
2 g	KCl
11.5 g	Na ₂ HPO ₄ *7 H ₂ O
2 g	KH ₂ PO ₄
Up to 1 L	MilliQ H ₂ O

Running Buffer (5X):

15.1 g	Tris Base
72 g	Glycine
5 g	SDS (Room temperature or it will precipitate out)
Up to 1 L	MilliQ H ₂ O

Sodium Chloride – NaCl (5 M):

146.1 g	NaCl
Up to 500 mL	MilliQ H ₂ O

TAE (50X):

242 g	Tris Base
57.1 mL	Glacial Acetic Acid
37.2 g	Na EDTA - 2 H ₂ O
Up to 1L	MilliQ H ₂ O

Transfer Buffer (5X):

23 g	Tris
108 g	Glycine
(5%	Methanol)
Up to 950 mL	MilliQ H ₂ O

Tris (1 M, pH 6.8):

121.14 g	Tris Base
Up to 1 L	MilliQ H ₂ O

* Adjust the pH to 6.8 using HCl.

Tris (1.5 M, pH 8.8):

90.86 g	Tris Base (Hydroxymethyl)
Up to 500 mL	MilliQ H ₂ O

* Adjust pH to 8.8 using HCl.

TTBS (10X):

100 mL	Tris (1 M, pH 7.4)	100 mM Tris (pH 7.4)
300 mL	NaCl (5 M)	1500 mM NaCl
50 mL	0.01% Triton X-100	0.5% Triton X-100
Up to 1 L	MilliQ H ₂ O	

Other Recipes

Note these are the recipes should you decide to make them from scratch. There are pre-made mixes in the reagent room. Look for instructions on the bottles. Generally, it is 40 g LB mix/L and 25 g Agar mix/L.

LB Broth:

10 g	Tryptone
5 g	Yeast Extract
10 g	NaCl
Up to 400 mL	MilliQ H ₂ O

* Autoclave for 15 minutes at 121°C (Liquid 30).

LB-Agar Medium (Agar Plates):

10 g	Tryptone
5 g	Yeast Extract
10 g	NaCl
15 g	Agar
Up to 250 mL	MilliQ H ₂ O

* Autoclave for 15 minutes at 121°C (Liquid 30). Use immediately after autoclaving or it will set!