

## Approved Roberts Lab Chemical Abbreviations List

<b>BUFFERS</b>	
<i>(all solutions are water based)</i>	
Cathode Buffer	Tris-Tricine Polyacrylamide Gel Electrophoresis Running Buffer
K3PO4 Buffer	Potassium Phosphate buffer solution
Na3PO4 Buffer	Sodium Phosphate buffer solution
PAGE	polyacrylamide gel electrophoresis buffer
PBS	Phosphate buffered saline
RUNNING BUFFER	sodium dodecyl sulfate, glycine, tris buffer
SDS-PAGE	sodium dodecyl sulfate, polyacrylamide gel electrophoresis buffer
Separating Buffer	Tris-Glycine Polyacrylamide Separating Gel Electrophoresis Buffer
SSC	saline-sodium citrate buffer
SSPE	saline-sodium phosphate EDTA buffer
Stacking Buffer	Tris-Glycine Polyacrylamide Stacking Gel Electrophoresis Buffer
TAE	Tris-Acetic acid-EDTA buffer
TBS	Tris-Buffered Saline
TBST	Tris-Buffered Saline and Tween 20
TE	Tris-EDTA buffer
Transfer Buffer	Tris-Glycine Western Blotting Transfer Buffer
<b>MEDIA</b>	
2xYT	Yeast Extract Tryptone
LB	Luria-Bertani
LB Agar	Luria Borth - Agar Media
M9	M9 Medium Broth
SBG	Dehydrated Media—R2A Agar to Sulfite Agar
SOB	Super Optimal Broth
SOC	SOB medium (Super Optimal Broth) that contains glucose

<b>CHEMICALS</b>	
ACSF	artificial cerebral spinal fluid: 629mM NaCl , 125mM NaHCO <sub>3</sub> , 125mM Glucose, 6.25mM NaH <sub>2</sub> PO <sub>4</sub> -H <sub>2</sub> O, 12.5mM KCl, 5mM MgCl
BSA	Bovine Serum Albumin
Destain	Polyacrylamide Gel Destaining Solution: Isopropanol + Acetic Acid
DMSO	Dimethylsulfoxide
DMF	Dimethylformamide
DEPC	Diethyl Pyrocarbonate
EDTA	Ethylene Diamine Tetra Acetic Acid
EGTA	Ethylene Glycol-bis(β-aminoethylether)-N,N,N',N'-Tetraacetic Acid
HEPES	4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid or N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid)
Krebs Ringer	Krebs-Ringer Bicarbonate Buffer (125 mM NaCl, 2.5 mM KCl, 1.25 mM NaH <sub>2</sub> PO <sub>4</sub> , 2 mM CaCl <sub>2</sub> , 1 mM MgCl <sub>2</sub> , 25 mM NaHCO <sub>3</sub> , 25 mM glucose)
Lower Tris buffer	1.5M Tris, 0.4 % SDS pH 8.8
MES	4-Morpholinethansulfonic Acid
MOPS	3-(N-Morpholino)propanesulfonic acid or 4-Morpholinepropanesulfonic acid
NP40 Lysis buffer	25mM Tris-HCl pH 7.4, 150mM NaCl, 1mM EDTA, 1% NP-40 and 5% glycerol
PEG	Poly Ethylene Glycol
PMSF	Phenylmethylsulfonyl Fluoride
RIPA Buffer	50 mM Tris-HCl, pH 8.0, with 150 mM sodium chloride, 1.0% NP-40, 0.5% sodium deoxycholate, and 0.1% sodium dodecyl sulfate
SDS	Sodium Dodecyl Sulfate
SYBR	N',N'-dimethyl-N-[4-[(E)-(3-methyl-1,3-benzothiazol-2-ylidene)methyl]-1-phenylquinolin-1-ium-2-yl]-N-propylpropane-1,3-diamine
TBE	Tris/Borate/EDTA
TMAC	Tetramethylammonium chloride
Transfer Buffer	25 mM Tris, 192 mM glycine, 10% methanol
TRIS	2-Amino-2-(hydroxymethyl)-1,3-propanediol or Tris(hydroxymethyl)aminomethane or Tris Base
Upper Tris buffer	0.5M Tris, 0.4% SDS pH 6.8
Versene	0.2 g /L EDTA in PBS