Protein expression and purification reagents

Buffer A (20 mM Tris-HCl pH 8.0, 350 mM NaCl, 20 mM imidazole)
-20 ml 1M Tris-HCl, pH 8.0
-70 ml 5M NaCl
-1.36 g imidazole
-dH20 to 1L
Filter sterilize.

Buffer B (20 mM Tris-HCl pH 8.0, 350 mM NaCl, 400 mM imidazole)
-20 ml 1M Tris-HCl, pH 8.0
-70 ml 5M NaCl
-27.2 g imidazole
-dH20 to 1L
Filter sterilize.

Buffer C (20 mM Tris-HCl pH 8.0, 50 mM NaCl)
-20 ml 1M Tris-HCl, pH 8.0
-10 ml 5M NaCl
-dH20 to 1L
Filter sterilize.

Buffer D (20 mM Tris-HCl pH 8.0, 100 mM NaCl)
-20 ml 1M Tris-HCl, pH 8.0
-20 ml 5M NaCl
-dH20 to 1L
Filter sterilize.

Buffer E (20 mM Tris-HCl pH 8.0, 1 M NaCl)
-20 ml 1M Tris-HCl, pH 8.0
-200 ml 5M NaCl
-dH20 to 1L
Filter sterilize.

Buffer F (20 mM Tris-HCl pH 8.0, 350 mM NaCl)
-20 ml 1M Tris-HCl, pH 8.0
-70 ml 5M NaCl
-dH20 to 1L
Filter sterilize.

Sumoylation storage buffer (20 mM Tris pH 7.5, 50 mM NaCl, 10% glycerol)
20 ml 1M Tris-HCl pH 7.5
50 ml 5M NaCl

100 ml glycerol
dH20 to 1L
Filter sterilize.

TGI buffer (20 mM Tris-HCl pH 7.5, 250 mM NaCl, 10% glycerol, 20 mM imidazole)
Per litre:
20 ml 1M Tris-HCl pH 7.5
50 5M NaCl
100 ml glycerol
1.36 g imidazole
900 ml dH20
Mix ingredients using a stir bar. Bring to 1L with dH20. Filter sterilize into 1L bottle.

TGI-500 (20 mM Tris-HCl pH 7.5, 250 mM NaCl, 10% glycerol, 500 mM imidazole)
Per litre:
20 ml 1M Tris-HCl pH 7.5
50 5M NaCl
100 ml glycerol
34 g imidazole
900 ml dH20
Mix ingredients using a stir bar. Bring to 1L with dH20. Filter sterilize into 1L bottle.

Buffer G (20 mM HEPES pH 7.4)
40 ml of 1 M HEPES-KOH pH 7.4
dH20 to 2L filter sterilize.

Buffer H (20 mM HEPES pH 7.4, 1M NaCl)
20 ml of 1 M HEPES-KOH pH 7.4
200 ml of 5M NaCl
dH20 to 1 L filter sterilize.

Buffer J (20 mM sodium citrate, 50 mM NaCl)
-10 ml of 1M Na Citrate
-5ml of 5M NaCl
dH20 to 500 ml, filter sterilize

Buffer K (20 mM sodium citrate, 1M NaCl)
-10 ml of 1M Na Citrate
-100 ml of 5M NaCl
dH20 to 500 ml, filter sterilize

Buffer L (20 mM HEPES pH 7.5, 1 mM EDTA, 2 mM CHAPS)
-40 ml HEPES pH 7.5
-4 ml 500 mM EDTA

-2.458 g CHAPS (3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulfonate hydrate)
dH20 to 2L

Buffer M (20 mM HEPES pH 7.5, 1 mM EDTA, 2 mM CHAPS, 1M NaCl)
-10 ml HEPES pH 7.5
-1 ml 500 mM EDTA
-0.615 g CHAPS (3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulfonate hydrate)
-100 ml of 5M NACl
-dH20 to 500 ml

Buffer C+GLYC (20 mM Tris-HCl pH 8.0, 150 mM NaCl, 10% glycerol)
-20 ml 1M Tris-HCl, pH 8.0
-30 ml 5M NaCl
-100 ml glycerol
-dH20 to 1L
Filter sterilize

Buffer L*GLYC (20 mM HEPES pH 7.5, 1 mM EDTA, 2 mM CHAPS, 50 mM salt 10% glycerol)
-20 ml HEPES pH 7.5
-2 ml 500 mM EDTA
-1.229 g CHAPS (3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulfonate hydrate)
-100 ml glycerol
-10 ml 5M NaCl
dH20 to 1L
Filter sterilize

4M KCl
-dissolve 298.2 g KCl in 900 ml dH20 (might need heating to get fully in solution)
-bring volume up to 1L with dH20
-sterilize by autoclaving

1x Pfu Storage buffer (50 mM Tris-HCl pH 8.0, 0.1 mM EDTA, 1 mM DTT, 10% glycerol, 0.1% NP40) (ran over column)

50 ml of 1M Tris-HCl pH8.0
200 µl of 0.5M EDTA
1 ml 1M DTT
100 ml glycerol
10 ml of 10% NP-40

dH20 to 1L, filter sterilize.

1x Pfu Storage buffer (50 mM Tris-HCl pH 8.0, 0.1 mM EDTA, 1 mM DTT, 50% glycerol, 0.1% NP40) (for concentrating and freezing)

50 ml of 1M Tris-HCl pH8.0
200 µl of 0.5M EDTA
1 ml 1M DTT
500 ml glycerol
10 ml of 10% NP-40

dH20 to 1L, filter sterilize.

DBD column buffer (20 mM Tris-HCl pH 7.5, 400 mM NaCl, 50 µM ZnCl2, 20 mM imidazole)
-20 ml 1M Tris-HCl, pH 7.5
-80 ml 5M NaCl
-50 µl 1M ZnCl2
-1.36 g imidazole
-dH20 to 1L
Filter sterilize.

For elution buffer, dissolve 0.27 g per 10 ml. Filter sterilize