

Homemade Buffer Compositions

- Miniprep Buffers
 - Re-suspension Buffer (equivalent of Qiagen Buffer P1)
 - Tris-HCl – 50 mM
 - EDTA – 10 mM
 - RNase A – 100 µg/mL
 - HCl – final pH 8

(**Note:** Store RNase A @ -20° C, aliquot buffer and add at time of use, do not autoclave)

(**Note:** Do not autoclave RNase A)
 - Lysis Buffer (equivalent of Qiagen Buffer P2)
 - NaOH – 200 mM
 - SDS – 1% (w/v)

(**Note:** Do not autoclave SDS, use sterile filter)
 - Neutralization Buffer (equivalent of Qiagen Buffer N3)
 - Gu·HCl – 4.2 M
 - KOAc – 0.9 M
 - HOAc – final pH 4.2
 - Column Wash/Binding Buffer (equivalent of Qiagen Buffer PB)
 - Gu·HCl – 5.0 M
 - Isopropanol – 30 % (v/v)
 - Column Wash Buffer (equivalent of Qiagen Buffer PE)
 - Tris·HCl – 10 mM
 - Ethanol – 80% (v/v)
 - HCl – final pH 7.5

- Mini-column Recycling Buffer
 - Equilibrium Buffer (equivalent of Qiagen Buffer QBT)
 - NaCl – 750 mM
 - MOPS – 50 mM
 - Isopropanol – 15% (v/v)
 - Triton X-100 – 0.15% (v/v)

(**Note:** Do not autoclave MOPS, use sterile filter)

- Protein Purification Buffer
 - NID Extraction Buffer
 - EDTA – 20-50 mM
 - Tris-HCl – 50 mM
 - NH₄Cl – 0.75 M
 - Triton X-100 – 0.5% (v/v)
 - Sucrose – 5.0% (w/v)
 - Lysozyme – 100 µg/mL
 - RNase A – 25 µg/mL
 - HCl – final pH 8

(**Note:** Store RNase A & Lysozyme @ -20° C, aliquot buffer and add at time of use, do not autoclave)