NP1XXXXXN – Buffer Preparation Guide

1. **Cell Suspension Buffer – 250 mL**
    a. 12.5mL 1M Tris HCL pH 7.4
    b. 5.0mL 0.5M EDTA pH 8.0
    c. Up to 250mL with autoclaved deionized water
    d. Add 1.5mL enzyme provided then store at 4C

2. **RNaseA – 2 x 2.8 mL**
    a. Provided with order

3. **Cell Lysis Buffer – 250 mL**
    a. 50mL 1N NaOH
    b. 12.5mL 20% SDS solution w/v
    c. Up to 250mL with autoclaved deionized water

4. **Neutralization Buffer – 250 mL**
    a. 74g KOAc - Potassium Acetate (CAS no.: 127-08-2)
    b. Up to 175mL with autoclaved deionized water
    c. Add 25mL HAC - Glacial Acidic Acid (CAS no.: 64-19-70) to solution
    d. Using pH meter, pH solution to 5.5 by slowly adding acetic acid
    e. Top off to 250mL with autoclaved deionized water and store at 4C

5. **Column Equilibration Buffer – 800 mL**
    a. 120mL 5M NaCl
    b. 40mL 1M MOPS pH 7.0
    c. 120mL 2-Propanol
    d. Up to 800mL with DNase/RNase-free, low endotoxin sterile water
    e. Add 1.2mL detergent provided to equilibration buffer

6. **Wash Buffer – 1.5 liter**
    a. 300mL 5M NaCl
    b. 75mL 1M MOPS pH 7.0
    c. 225mL 2-Propanol
    d. Up to 1.5L with DNase/RNase-free, low endotoxin sterile water

7. **Elution Buffer – 400 mL**
    a. 128mL 5M NaCl
    b. 20mL MOPS pH 7.0
    c. 60mL 2-Propanol
    d. Up to 400mL with DNase/RNase-free, low endotoxin sterile water

8. **TE Buffer – 30 mL**
    a. 300uL 1M Tris HCL pH 7.4
    b. 60uL 0.5M EDTA pH 8.0
    c. Up to 30mL with DNase/RNase-free, low endotoxin sterile water