

**DNA Extraction Buffer - 1L**

100ml 1.0M Tris-HCl pH 7.5  
 100ml 0.5M EDTA pH 8.0  
 125ml 10% SDS  
 675ml ddH<sub>2</sub>O  
 \*add 200µl 10mg/ml RNase  
 after heating to 65°C

**Final Concentrations**

0.1M Tris-HCl pH 7.5  
 0.05M EDTA pH 8.0  
 1.25% SDS  
 0.002mg/ml RNase

**SDS/NaCl Extraction Buffer - 1L**

200ml 1M Tris-HCl pH 7.5 = 0.2M (200mM)  
 50ml 0.5 EDTA pH 8.0 = 0.025M (25mM)  
 50ml 10% SDS = 0.5%  
 50ml 5M NaCl = 0.25M (250mM)  
 650ml ddH<sub>2</sub>O

**1M Tris-HCl pH 7.5 - 1L**

121.14g/L  
 60.57g/0.5L

**Autoclave (recheck pH after autoclaving)**

121.14g/mol X 1M = 121.14g

(Start w/ ~ 40ml HCl)

**0.5M EDTA pH 8.0 - 1L**

146.125g/L  
 73.0625g/0.5L

**Autoclave**

292.25g/mol X 0.5M = 146.125g

**10% SDS - 1L**

100g/L  
 50g/0.5L  
 62.5g/0.625L

0.10 X 1000 = 100g

**10mg/ml RNase**

0.01g/ml  
 0.1g/10ml

**Boil**

Keep at 95°C for 10 minutes.  
 Aliquot into 100µl units. Store at -20°C

**6M Ammonium Acetate - 1L****4°C**

462.495g/L  
 231.2475/0.5L

77.0825g/mol X 6M = 462.495g (Start w/ ~ 400ml H<sub>2</sub>O)

**0.6M Sodium Chloride - 1L**

35.0652g/L  
 or  
 120ml 5M/L

58.442g/mol X 0.6M = 35.0652g

$\frac{1L \times 0.6M}{5M} = 0.12L$  or 120ml

**5M Potassium Acetate - 1L****4°C**

490.7g/L  
 49.07g/100ml

98.14g/mol X 5M = 490.7

**95% EtOH - 1L****4°C**

950ml/L  
 475ml/0.5L

0.95 X 1000 = 950ml

**70% EtOH - 1L****4°C**

700ml/L  
 350ml/0.5L

0.70 X 1000 = 700ml

**0.1X TE -1L****4°C**

1ml 1M Tris-HCl pH 7.5 or 8.0  
 200µl 0.5M EDTA pH 8.0  
 998.8ml Sigma H<sub>2</sub>O