

## **APPENDIX**

### **Buffer preparations**

#### **Citric acid saline dissociation buffer(10X)**

1.35M Potassium chloride

0.15M Sodium citrate

Prepare in deionized water. Autoclave and Store at 4°C. Dilute 1:10 with deionized water and warm at 37°C before use.

#### **Laemmli buffer (2X)**

4% SDS

10%  $\beta$ -mercaptoethanol

20% Glycerol

0.004% Bromophenol blue

0.125M Tris-HCl

Adjust pH to 6.8

#### **Running buffer (10X)**

250mM Tris

1.95M Glycine

1% SDS

Prepare in deionized water. Adjust pH to 8.3 after dilution to 1X in deionized water

#### **Transfer buffer (10X)**

250mM Tris

1.95M Glycine

Prepare in deionized water. Add fresh 20% methanol after dilution to 1X in deionized water and adjust pH to 8.3

#### **Ponceau S Staining solution**

5% (vol/vol) Glacial acetic acid

0.1% (wt/vol) Ponceau S

Prepare in deionized water.

**TBST**

20mM Tris

150mM Sodium Chloride

0.1% Tween-20

Prepare in deionized water and adjust pH to 7.5