Appendix

Appendix Table 6. 2: Stock Solutions used during the project.

Stock Solution	Preparation
EDTA Stock [0.5 M] (500 ml)	Dissolve 93.05 g of EDTA disodium salt (MW=372.24 g/mol) in 400 ml distilled H_2O. Adjust pH to 8.0, then adjust to final volume of 500 ml with distilled H_2O and autoclave at 121 °C for 20 min. Store at 4°C in dark.
TAE [50x] (2 L)	Dissolve 484 g of Tris-base (MW = 121.14 g/mol) in 1.5 L of distilled H_2O. Add 114.2 ml of glacial ascetic acid [100%] and 200 ml of EDTA [0.5 M]. Adjust to final volume of 2 L using distilled H_2O. Store at room temperature. Dilute 1:50 using distilled H_2O when 1x TAE is required.
Glycerol (10%) (1 L)	Dilute 100 ml of molecular-biology-grade glycerol [100%] in 900 ml of distilled H_2O. Autoclave at 121 °C for 20 min. Store at 4°C.
$MgCl_2$ [100 mM] (100ml)	Dissolve 0.95 g of $MgCl_2$ (MW = 95.211 g/mol) in 90 ml distilled H_2O. Once fully incorporated add distilled H_2O to 100ml. Autoclave at 121 °C for 20 min. Store at 4°C.
$CaCl_2$ [100 mM] – Glycerol [15%] (100ml)	Dissolve 1.11 g of $CaCl_2$ in 80 ml of distilled H_2O. Add 15 ml Glycerol [100%]. Once incorporated increase volume to 100 ml with distilled H_2O. Autoclave at 121 °C for 20 min. Store at 4°C.
TBST [10x] (1 L)	Dissolve 24.23 g Tris-base (MW = 121.14 g/mol) and 87.66 g of NaCl (MW = 58.44 g/mol) in 800 ml of distilled H_2O. Add 50ml of Tween-20 [20%]. Adjust pH to 7.5 using HCl. Adjust volume to 1 L using distilled H_2O. Store at 4°C. Dilute 1:10 using distilled H_2O when 1x TBST is required.
Protein Gel Loading Buffer	Mix NuPAGE, LDS Sample buffer [4x] with β-Mercaptoethanol (10%) in a 1:1 ratio. Store at room temperature.