**50X TAE Stock Solution**

1. Weigh 242.28 gram of Tris base.
2. Add 18.61 gram EDTA
3. Add 750 mL dH2O and dissolve completely.
4. Add 57.1 ml Glacial Acetic Acid.
5. Fill to final volume of 1 L with dH2O. Store at room temperature.

**A 1:50 dilution of TAE Stock Solution with dH2O will create a 1X Working Solution. The buffer should have a final pH of ~8.6 and will not require adjustment.**

**Note**: 1X TAE contains: 40mM Tris base, 20mM acetate and 1mM EDTA