ABSTRACT

Is used in a multitude of experiments, but is often used as an ingredient in 10x TBE buffer

MATERIALS

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- Ethylenediamine Tetraacetic Acid Disodium Salt Dihydrate Fisher Scientific Catalog #S311-500
- Sodium Hydroxide Fisher Scientific Catalog #BP359-500

SAFETY WARNINGS

- Will be using NaOH pellets, make sure to wear gloves.

BEFORE START INSTRUCTIONS

Make sure you are able to use the pH machine and an autoclave machine
1. Fill 0.5 L beker with 300 mL of deionized water.

2. Add 73.06 g of Ethylenediamine Tetraacetic Acid Disodium Salt (292.24 g/mol) to the water and mix.

3. Put the electrode pH meter into the solution (with continuous mixing) and measure the pH (don’t worry if the solution isn’t clear). The pH will be about 3 at this point. The pH needs to be at 8.

4. Add NaOH pellets until the pH is near 7.8 (the solution will be clear around pH 7.5). Complete to arrive at pH 8 with NaOH 5 M solution (also NaOH 10 M is good).

5. Once at pH 8, fill to 500 mL.

6. Autoclave at 121 °C for 00:15:00 or filter it with 0.22 u filter.