# 0.5 M EDTA (0.5 L)

**Haven Himmighoefer**

## Abstract

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

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## Before start

Make sure you are able to use the pH machine and an autoclave machine

## Materials

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

## Protocol

### Step 1.

Fill 0.5 L bottle with 300mL of deionized water.

### Step 2.

Add 95.05 g of Ethylenediamine Tetraacetic Acid Disodium Salt Dihydrate to the water and mix. The pH will be about 3 at this points. The pH needs to be at 8.

### Step 3.

Add NaOH pellets until the pH is at 8. This will be about 105 pellets. Can check if at 8 with pH machine or with pH paper.

### Step 4.

Once at pH 8, fill to 500 mL.

**Step 5.**

Autoclave under setting 12 with water in the container to prevent over boiling.

## Warnings

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