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0.5 M EDTA (0.5 L)



Forked from [0.5 M EDTA \(0.5 L\)](#)

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Protocol status: Working

We use this protocol and it's working

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Abstract

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


Materials

MATERIALS

 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

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



- 1 Fill 0.5 L beaker 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 µ filter.

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