0.5 M EDTA (0.5 L)

Forked from 0.5 M EDTA (0.5 L)

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ABSTRACT

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

PROTOCOL STATUS

Working

We use this protocol in our group and it is working

MATERIALS

NAME	CATALOG #	VENDOR
Ethylenediamine Tetraacetic Acid Disodium Salt Dihydrate111212	S311-500	Fisher Scientific
Sodium Hydroxide111212	BP359-500	Fisher Scientific

SAFETY WARNINGS

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

BEFORE STARTING

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 continuos mixing) and mesure 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.

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