



Title: *Buffers and Stock Solutions:
Ethylenediaminetetraacetic Acid (EDTA), 0.5M pH 8.0*

No: RTLP-GL-BSS-10

Location:
Old CCRC Tripp Lab

Approval Date:
10 September 2004

Supersedes Date:

Materials:

Page 1 of 1

- Lab coat
- Gloves
- Filter unit: cellulose acetate membrane, 0.2µm pore size
- Disodium EDTA dyhydrate
- Stir plate
- Stir bar
- dH₂O
- Analytical balance
- 1L erlymeyer flask
- pH Meter
- 10M NaOH
- Pipettes
- Pipette Aid

Procedure:

1. Weigh out 186.1 grams disodium EDTA dyhydrate and place into 1L erlymeyer flask.
2. Bring up to 700 mL with dH₂O and stir into solution.
3. Adjust to pH 8.0 by *slowly* adding 10M NaOH.

Note: it will take ~ 50 mL of NaOH to raise to desired pH. Begin titrating before the sample is completely dissolved. EDTA, even in the disodium salt form, is difficult to dissolve at this concentration unless the pH is increased to between 7 and 8.

4. Continue stirring and bring solution up to 1L using dH₂O.
5. Filter sterilize and store at 4°C.

Author	Management Approval/Date	Effective Date

