

Experiment 8 Pre-Lab an intro to acids + bases 10/25/22

Materials:

- Plastic reaction surface
 - 1x12 well strip
 - 1M HCl
 - 0.1M NaOH
 - chromatography paper
 - 24-well tray
 - 0.100M HCl
 - paper towels
 - powdered dry egg shell
 - weighing boat.
 - 2M HCl
 - red cabbage extract
 - pipet
 - microstirrer
 - bromothymol blue (BTB)
 - microwipers
 - dI water
 - indicator
 - 1M NaOH
 - analytical balance
 - ethyl alcohol
 - hot tap water.
- Section A: common lab Acids and bases: Physical properties and safe handling.
- read chart, no procedure.

Section B: Indicator color probes for acids + bases.

- Procedure: drop 1 drop of red cabbage extract into two wells of a 1x12 well strip. note the color. use pipet to put 1 drop of 0.1M HCl into wells w/ red cabbage extract. stir w/ microstirrer. observe + record color changes. add 1 drop of 0.1M NaOH to another well w/ cabbage extract + stir. observe color change. repeat this mixing acids and bases w/ BTB. what are the differences between BTB + the cabbage extract? Put 2-3 drops of extract onto chromatography paper + blot off extra solution. make 3 or 4 pieces approx 4 cm in length. when pH paper is dry test acid/base/neutral solutions. tape samples in lab notebook.

Lab Manual Chemistry 111 Penn State

David Baud



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Embracing the Track of Term: An Mental Symphony within **Lab Manual Chemistry 111 Penn State**

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