

Project 2.1 Notebook Guidelines

Observations: Include physical characteristics of the original unknown, the crude ether extract, the crude hydroxide extract, the purified ether extract, and the purified hydroxide extract.

Results: Include the mass of the original unknown, the purified ether extract, and the purified hydroxide extract

Discussion:

Draw a flow chart of the extraction process.

Explain why you performed these steps in the flowchart above:

- A. wash the organic phase with 10 ml of water
- B. add 6M HCl to the aqueous solution
- C. add sodium sulfate to the organic layer

What was the main purpose of the extraction?

Do you expect the product isolated from the hydroxide layer to be an acid, base, or neutral compound? Explain.

Do you expect the product isolated from the ether layer to be an acid, base, or neutral compound? Explain.

What was the main purpose of the recrystallization?

Why didn't you just use water as the recrystallization solvent for both of the crude products you isolated?