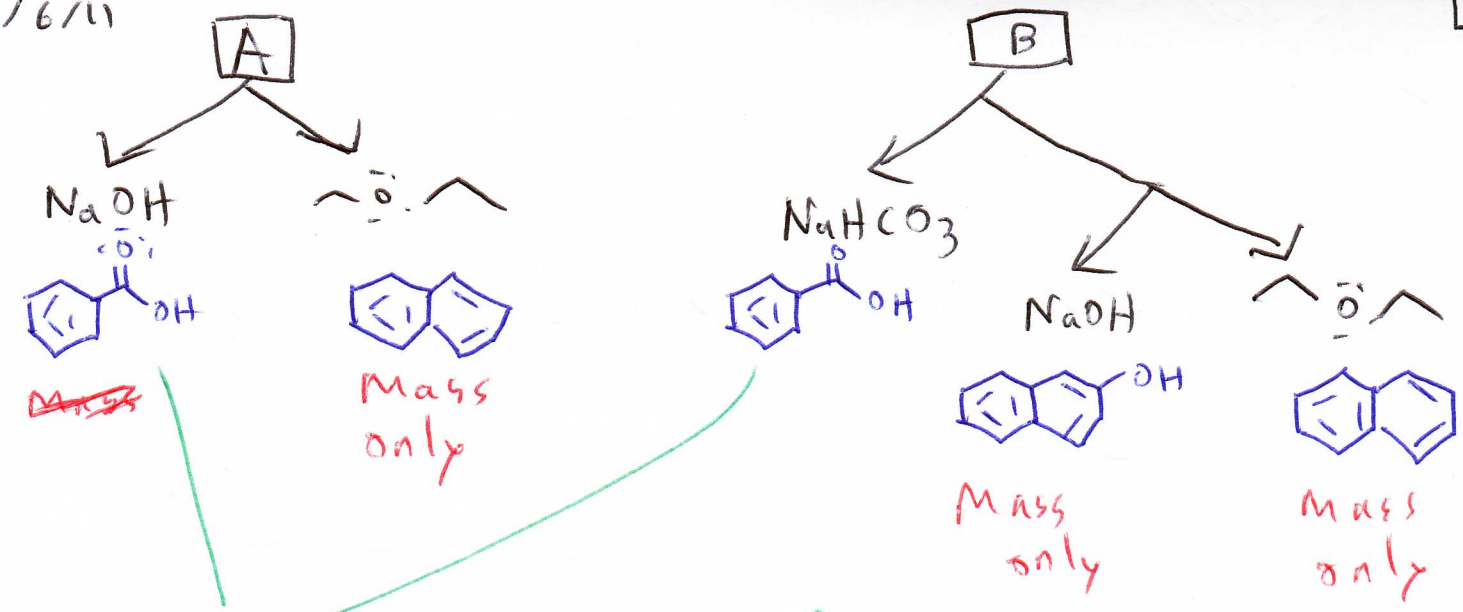
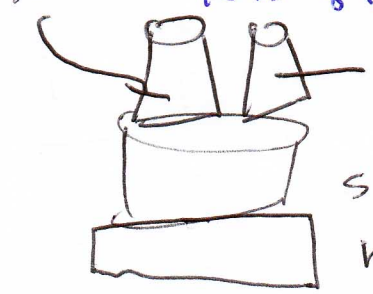


take individual mass first, then combine, recrystallize, then take M.P.

Recrystallization

Ideal solvent behavior – The solute should have zero solubility at R.T. and virtually infinite solubility near the solvent's boiling point.

→ In reality, solutes will have trace solubility even below RT, so the minimum possible amount of solvent should be used to minimize loss of product.



– Transfer small (0.5mL - 1mL) portions of the solvent (water for this lab) to the solid and attempt to dissolve the solid. Repeat this process until the point when the solid barely dissolves. Watch out for layers, which indicates the solute melted but didn't dissolve.

– Once the solid dissolves, cool first to RT then place in an ice bath. Collect the crystals on a Hirsch funnel then allow to air dry.