LAB PARTNER

LOCKER/DESK NO.

COURSE & SECTION NO.

Test tube z was also an acidbase reaction between the carboxylic group of asperin and the bicarbonate lonof the Natl Co3. This forms HZ (03 again, which broars down to the and coz. salicyclic + NaHCOZ > (of CH + H20 acid 1 002.

## Test tube 3:

This test tube contained no reaction between benzyl alcohol and Naticoz. This is the result because the hydrogen is difficult to remove from the alcohol dus to the olectron density of orygen.

O Percent yield Discussion A yield of 33.7 1. was obtained . The reason why it is not 100%. could have been due to the recrystallization process in which erystals of aspirin may have peen lost crystals also may have been lost during the Thransferring process of transferring This would imply that more of solutions to different beakers. 14150, the vacuum apparatus may have caused the crystals to bo stuck under the filler paper into the beaker Iwhich contained a solution that was disposed of.

@ Melting point Discussion My melling point started at 124°C and the product completely melted at 126°c. This is lower than the theoretical/ researched value of 135°C. This is dus to the fact that my sample was not purz. Also, the use of excess heat during the formation of aspirin caused it to be in the form of salicyclic acid, which makes it impure.

Through various tosts and experiments a percent yield of only 33.7°C and a multing point of 124°6-126°6 obtained. Due to the fact that those results are inconsistent from what we would expect from a pure sample of aspirin, it can be concluded that the aspirin synthesized in this experiment was impura. the sample was in the form of the starting material, solicyclic acid.