	Resolution of enylsuccinic Acid	Name
Technique/5 Report/	50 Total/55	
Section I: Introduction		
Statement of purpose (3 pts). experiment.	Write a concise statement ou	atlining the purpose of the
Reaction Scheme (5 pts). Draw performed.	v a series of equations that de	escribe the reactions you
Section II: Experiment (8 pts). Write a brief experiment what you were supposed to do).		you did (not necessarily

Observations (5 pts). Record any observations or difficulties encountered during the		
procedure.		
Section III: Analysis		
Optical Rotation (6 pts).		
The observed rotation when g of (+)-phenysuccinic acid was		
dissolved in ml acetone: °		
m doctors		
The observed rotation when g of (+)-phenysuccinic acid was		
dissolved in ml acetone: °		
Calculations (8 pts).		
Calculate the concentration appoints rotation of (1) phonyouseinic said:		
Calculate the concentration specific rotation of (+)-phenysuccinic acid:		
Calculate the % optical purity of the (+)-phenysuccinic acid you isolated:		
Calculate the 70 optical purity of the (1)-phonysuccime acid you isolated.		
Calculate the concentration specific rotation of (-)-phenysuccinic acid:		
Calculate the concentration specific rotation of (-)-phenysuccinic acid.		
Calculate the % optical purity of the (+)-phenysuccinic acid you isolated:		
careatate the 70 option parity of the (1) phonysuccime acid you isolated.		

Questions (5 pts each):

- 1) What affect would the presence of residual water (from the recrystallization) have on the observed optical rotation of your sample?
- 2) Is the (-)-phenyl succinic acid that was used for the polarimetry more or less pure than the (+)-phenyl succinic acid? Why?
- 3) Calculate the rotation you would observe for a solution of (+)-phenysuccinic acid if you had dissolved 0.2 g in 10 mL of acetone, assuming a 20 cm tube length.