Name _____Instructor's initials _____

1. (1 pt) Name of experiment:

2. (2 pts) Purpose of experiment:

3. (5 pts) Balanced equation(s) for main reaction(s) (showing stereochemistry):

4. (15 pts) Explain how resolution is achieved in this experiment:

5. (8 pts) List all chemicals used and their purpose or function:

Reactants Catalysts Reaction Solvents Drying Agents Extraction Solvents Other

6. (8 pts) Data: (List only for the reactants given in the balanced equation(s) of Item 3;

Reactants	Molecular weight	Density (for liq.)	Grams used	Moles used

Product	Molecular weight	Theoretical Yield (moles)	Theoretical Yield (grams)

7. (2 pts) Limiting reactant:

8. (1 pts) Actual yield (in grams): _____

9. (1 pts) Percent yield: _____

10. a. (3 pts) General observations of product:

b. (3 pts) Literature values for physical properties:

11. (8 pts) Report results of polarimetry in terms both of optical purity and enantiomeric excess: (Show calculations)

12. (8 pts) Comments and conclusions:

13. (25 pts) Answers to questions (attach to report):