**Peptide Day 2**

**Experimental Procedure – Preparation of Methyl L-Phenylalaninate Hydrochloride**

1. Place 1.0 g of L-phenylalanine in a 25-mL round-bottom flask containing a one-stirbar, add 5 mL of MeOH, and begin stirring the mixture.
2. Add 0.5 mL of thionyl chloride dropwise using a syringe. Equip the round-bottom flask with a reflux condenser and heat the mixture, which should be homogeneous under gentle reflux for 45 min. (Note: Set the hotplate to 130 and do not start the 45 minutes until the solution has started to reflux).
3. Allow the reaction mixture to cool to room temperature in air for 5 minutes. The place round bottom flask into water for 10 minutes. Transfer the solution to a 100 mL beaker. Rinse the round-bottom flask with 1 mL methanol and transfer this rinse to the beaker.
4. Place the beaker in an ice-water bath and add 25 mL of diethyl ether. Leave in until precipitate forms (10-15 minutes).
5. Collect the white solid by vacuum filtration and rinse with 25 mL diethyl ether.
6. Weigh the recrystallized product, determine its melting point, and obtain an IR spectrum.