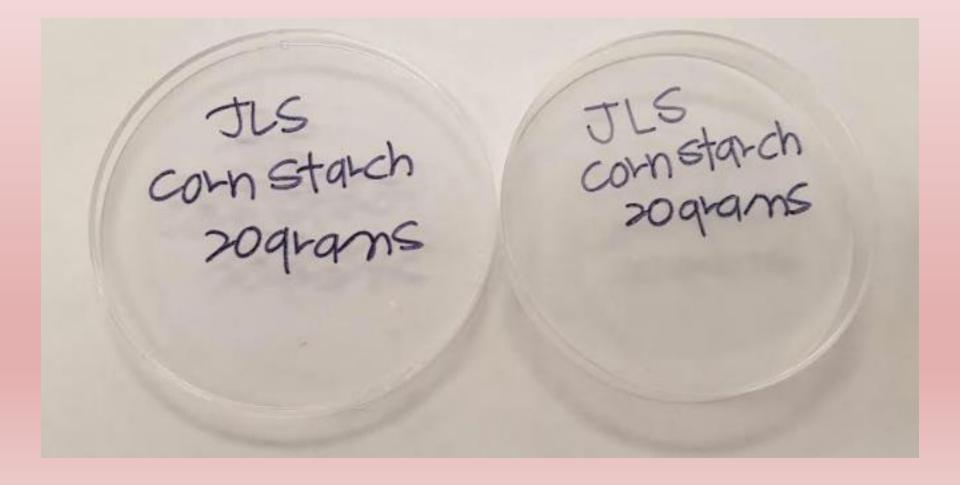
# Lab Procedure for Standard/Control Sample Preparation

#### Preheat a hot plate to 400°C

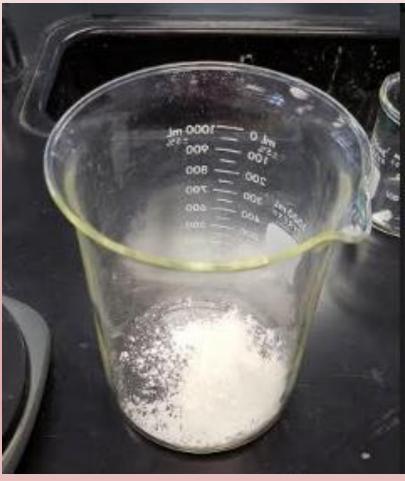


Label tops and bottoms of petri dishes with group initials, sample name and reactant concentration

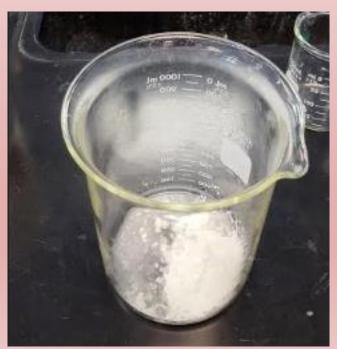


#### In 1,000-ml beaker, add 10 g of cornstarch





Using a 10-ml graduated cylinder, add 5 ml of vinegar to the same beaker



### Using a 10-ml graduated cylinder, add 5 ml of glycerin to the same beaker







Using a 100-ml graduated cylinder, add 60 ml of water to the same beaker

## Use your measured water to get the glycerin residue from the graduated cylinder in the previous step







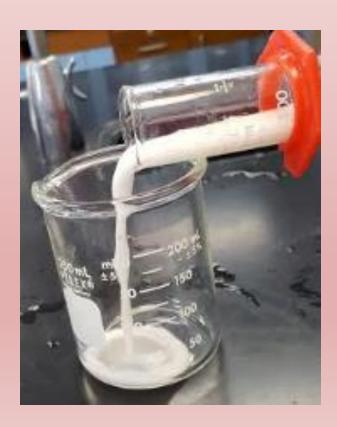
#### Using a silicone spatula, stir until all material is completely dissolved





Using a 100-ml graduated cylinder, measure out 60 ml of the mixture, and put into a clean 250-ml beaker





### Add 0.6 grams of phosphorescent powder to the 60-ml mixture in the 250-ml beaker—and stir





On the preheated hot plate, heat the mixture in the 250-ml beaker

400 °C →



#### Continuously stir while heating the mixture for 6 mins and 30 secs







## After 6 mins and 30 secs, the mixture becomes clear and/or a viscous solid





Using the silicone spatula, transfer the heated mixture to a prepared petri dish







Let the phosphorescence bioplastic dry overnight