Soap **Summary and Proposal 2**

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Your lab instructor’s name: Pedro Your lab section: 2A

*All work must be* ***very neat*** *and* ***organized****. If you need to collect your thoughts, please use a separate sheet of paper. Proposals are a* ***group******effort****. Please submit the completed document as a PDF to the* ***Soap Proposal 2*** *D2L DropBox before the scheduled end of lab.*

1. In your own words, the **goal for this second session** of the *Soap Project* is…

The goals for the second session of the Soap Project are to implement and carry out Proposal 1, write Proposal 2, and identify physical and chemical properties that will help distinguish the final product from the initial components which will help us conclude if the synthesis was successful, then it will help us to examine the quality of the product, allowing us to determine what needs to be done to improve the quality obtained.

2. **Characterization Test 1**. State what property you are evaluating with the first characterization test.

3. **Characterization Test 1 Rationale**. Clearly give the chemical/physical reasoning behind the test design and how it is **quantitative**. That is, state the physical and/or chemical concepts and/or mechanisms that underpin its design and implementation, and how this leads to quantitative measurements.

4. **Characterization Test 1 Controls**. Clearly state your **positive** and **negative** controls for the first characterization test.

5. **Characterization Test 1 Procedure Outline**. Outline your test procedure. The procedure is restricted to materials available in lab. Be sure to specify the volumes, masses, timing, etc. Further, the specified amounts must be on the milli-scale level. ***Please NUMBER your procedural steps.***

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| --- | --- |
| Procedural Step | Justification |
| Procedural Step – What will you do? (Describe the action.): | Justification. What is the reason for, or purpose of, this action? |

6. **Characterization Test 2**. State what property you are evaluating with the second characterization test.

7. **Characterization Test 2 Rationale**. Clearly give the chemical/physical reasoning behind the test design and how it is **quantitative**. That is, state the physical and/or chemical concepts and/or mechanisms that underpin its design and implementation, and how this leads to quantitative measurements.

8. **Characterization Test 2 Controls**. Clearly state your **positive** and **negative** controls for the second characterization test.

9. **Characterization Test 2 Procedure Outline**. Outline your test procedure. The procedure is restricted to materials available in lab. Be sure to specify the volumes, masses, timing, etc. Further, the specified amounts must be on the milli-scale level. ***Please NUMBER your procedural steps.***

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| Procedural Step | Justification |
| Procedural Step – What will you do? (Describe the action.): | Justification. What is the reason for, or purpose of, this action? |

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| **Technical Skill Evaluation** |
| Calculate the percent yield for each saponification trial (run) of **Proposal 1**. Show all work. |