Soy-stainable

Standard Lab Operating Procedure #500 Biobased Bubbles

Laboratory:	Biotechnology/Bioresearch	Location: Bioresearch Lab
SOP prepared	l by: R. Sanders	Last Revision: 9/30/15

Problem

What are the performance characteristics and environmental benefits of biobased bubbles? **Safety**: Do not drink the bubbles even though they are non-toxic.

Materials:

vegetable glycerin	biobased dish soap (7 th Generation)	pipettes
graduated cylinder	sugar	balance

bubble bottles

Procedure:

- 1. Using a graduated cylinder measure out 10ml of warm water and pour into plastic cup.
- 2. Using a disposable pipette, measure out 1ml of bio-based dish liquid and add to cup of water.
- 3. Measure out 1 ml of glycerin and pipette it into the mixture.
- 4. Weigh out 0.5 g of sugar and add to the solution in the cup.
- 5. Stir solution to dissolve sugar and pour into the bubble container.
- 6. Produce bubbles to collect data.
- 7. Record observations in lab notebook in comparison to store bought bubbles, i.e. estimating bubble amount produced, slipperiness, etc.
- 8. Collect quantitative measures: i.e. time before bursting, bubble weight, bubble size, etc.

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