## Making soy-based Ink

## Standard Operating Procedure Soy Ink

Laboratory: Biotechnology/Bioresearch Lab

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**General:** Ink is a pigment mixed in a liquid that will not blur when put on paper. Inks made with soybean oil are made from a renewable resource, much more biodegradable, more easily removed from paper during recycling and print with brighter colors that don't rub off.

Safety: Safety glasses if working in Bioresearch Science Lab

## **Materials**

unsweetened Kool-Aid packets disposable pipettes water
balances vegetable (soybean) oil stamps
small paper cups soy lecithin paper
paper towels stir sticks small sponges

Petri dish or souffle

cup

## **Procedure**

- 1. In a paper cup, add 6g of Kool-Aid and 5mL of water. Mix completely with stir stick.
- 2. Add 1mL of soybean oil to the Kool Aid solution and mix well.
- 3. Using a balance, weigh out 0.3g of soy lecithin granules, or 0.5mL of liquid lecithin and stir until all granules have dissolved completely.
- 4. Pour the soy ink into the middle of a small sponge in a petri dish or souffle cup. The soy ink will soak up quickly.
- 5. Moisten a rubber stamp by pressing the stamp on to the soy ink in the sponge, then print image on paper.
- 6. Steps 1-6 can be repeated to create different colors.
- 7. Steps 1-6 can be repeated with various milk types, as well.
- 8. Compare the performance of the inks.

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