

Iodine Clock Reaction Lab Report

Minhae Park

Grade 8

Science (Chemistry)

February 14, 2011

Question: What is the iodine clock reaction?

Hypothesis: If hydrogen peroxide and iodine meet, then water will turn blue (which is the result of the iodine clock reaction).

Background Information: Hydrogen peroxide (H_2O_2) is the mixture of two elements: two hydrogen and two oxygen atoms. It's a compound, but in this experiment it is a solution because in the whole solution only 3% is hydrogen peroxide and the rest is water. The elements combined to make hydrogen peroxide (oxygen and hydrogen) are covalent. Due to hydrogen peroxide being a covalent, there are no cations and anions. Iodine is the 53rd chemical element in the periodic table. It has 37 known isotopes but only one, I^{127} is stable.

Materials: 3 clear plastic cups (4 ounces/120ml or larger), 1 1000g Vitamin C tablet, tincture of iodine (2%), hydrogen peroxide (3%), liquid laundry starch/corn starch/potato starch, measuring spoons, measuring cup, safety goggles, big spoon, plastic bag.

Procedure:

1. Crush the Vitamin C tablet with the spoon in a plastic bag and get the finest powder as possible.
2. Put all the powder in a cup and add 60ml of warm water.
3. Stir for at least 30 seconds.
4. Label cup as 'Liquid A.'
5. Take a new cup and put 5ml of Liquid A. Then add: 60ml of warm water and 5ml of iodine. Label this cup as 'Liquid B.' (Can get rid of Liquid A)
6. In the last cup, mix 60ml of warm water, 15ml of hydrogen peroxide and 2.5 ml of liquid starch (if liquid starch is not available then you can use corn starch of potato starch).
Label this cup as 'Liquid C.'
8. Pour Liquid B into Liquid C and repeat for a few times.
9. Place the cups down and watch the results.



Clock Reaction Lab Report

Lei Shi

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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