

Experiment No.(2) Effect of Sulfuric Acid on Cholesterol:

- Cholesterol loses water molecule due to the effect of concentrated sulfuric acid (hydroxyl group and hydrogen atom lost from two neighboring carbon atoms) resulting in double bond from the ring.
- The resulting compound is known as "**Cholestrolin**" and has a red color.

Materials:

1. Solution of cholesterol in 1% chloroform or solution of vegetable oil in chloroform.
2. Concentrated sulfuric acid.

Procedure:

1. Add 3 ml of cholesterol-chloroform solution in clean test tube.
2. Add 3 ml of concentrated sulfuric acid.
3. Mix well, red color will appear.

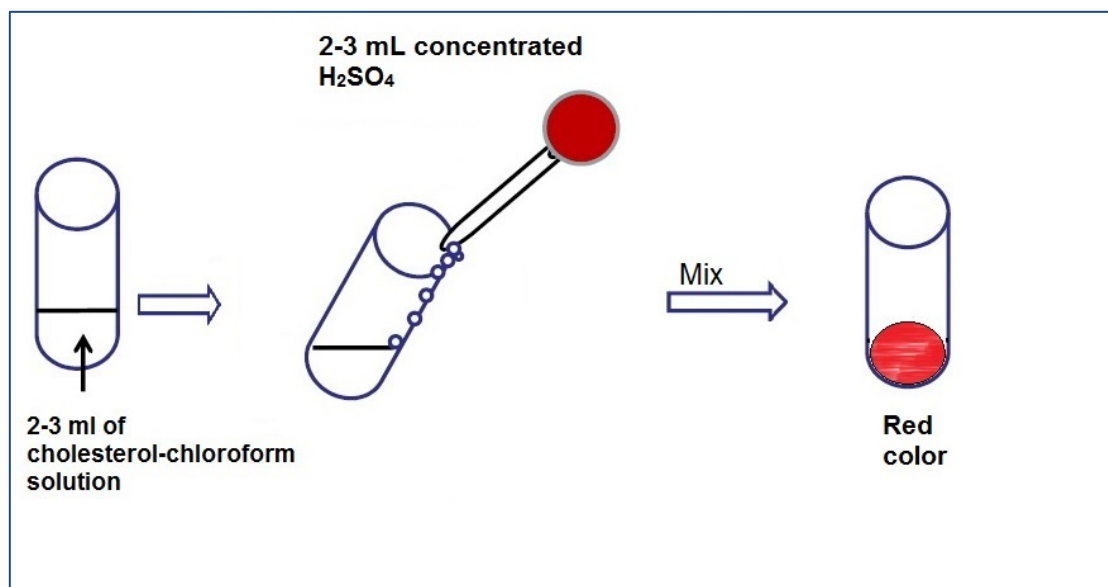


Figure 2. Effect of Sulfuric Acid on Cholesterol.