## **Experiment No.(7) Osazones formation test:**

- Osazones formation test specific to reducing sugar (sugar having free carbonyl group C=O).
- The test involves the reaction of a reducing sugar with excess of phenyl hydrazine when kept at boiling temperature.
- All reducing sugars form osazones. Each sugar has a characteristic crystal form of osazones.

## **Material:**

- 1. Carbohydrate solution (1-2%).
- 2. Phenylhydrazine powder.

## **Method:**

- 1. Add 2mL of carbohydrate solution to a test tube.
- 2. Add phenylhydrazine powder to the carbohydrate solution until saturation is reached.
- 3. Mix the content of the test tubes well then put it in water bath and boil for 3 minutes.
- 4. Let the test tube cool at room temperature notice the formation of yellow crystals. Take a sample of the crystals and test it under a microscope.

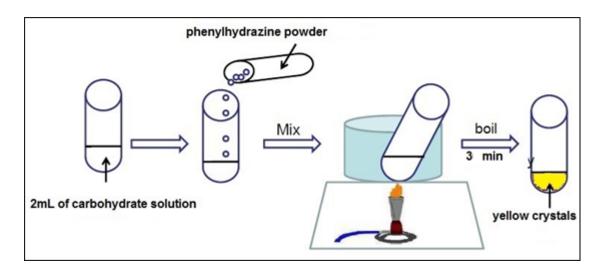


Figure 7. Procedure to Osazones formation test.