# PRECIPITATION REACTION OF PROTEINS Activity No. 8

- PURPOSE: To be able to know some precipitation reactions of proteins and its applications
- H. APPARATUS: Bunsen burner, test tubes, vials, beaker (250 ml), beaker (50 ml), funnel, graduated cylinder (25 ml), dropper, stirring rod, test tube holder, test tube brush
- III. MATERIALS: 20 ml 2% egg albumin solution, 2% casein , 4 ml ethyl alcohol Drops of: 0.1 N acetic acid, 5N acetic acid, 1% CuSO<sub>4</sub>, 0.1N HCl, saturated picric acid,5% tannic acid , potassium ferocyanide, solid NaCl, solid (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, Pb (OAc)<sub>2</sub>, 1% AgNO<sub>3</sub> , 1% CuSO<sub>4</sub>,

#### IV. PROCEDURE:

- Heat: Heat coagulation and precipitation occur best near the isoelectric point of the protein. Albumin coagulates when heated. Aqueous solutions of proteoses, peptones, gelatin and casein are not coagulated by heat.
  - a. Place 5 ml of 2% casein in a test tube and heat to boiling.

Observe:

b. In each of 3 test tube place 1 ml of egg albumin solution. To the first tube add 1 drop of 0.1 N acetic acid, to the second tube add 2 drops of 5N acetic acid. Leave the third tube as is to serve as control. Boil the contents of the three tubes and compare the results obtained.

A variation of this test is used clinically to test qualitatively for albumin in urine.

Which tube has the best coagulation?

#### 2. Alcohol:

Add 4 ml of ethyl alcohol to 2 ml of egg albumin solution. Observe. Test a portion of the suspension with water and observe.

Does the precipitates dissolve in water? \_\_\_\_\_

Set the remainder aside in a stoppered test tube for 30 minutes.

Again test the solubility of the precipitate in water and observe. Filter the mixture and heat the filtrate using a water bath and observe. Describe the results observed.

How is this process applied in the fixing of tissues for histological purposes?

3. Neutral Salts:

Put 2 ml of egg albumin solution in two test tubes. Saturate one with solid NaCl, and the other with (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>.

Which tube coagulates more?

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