

**Experiment No.(3) Precipitation of proteins using metallic acids:**

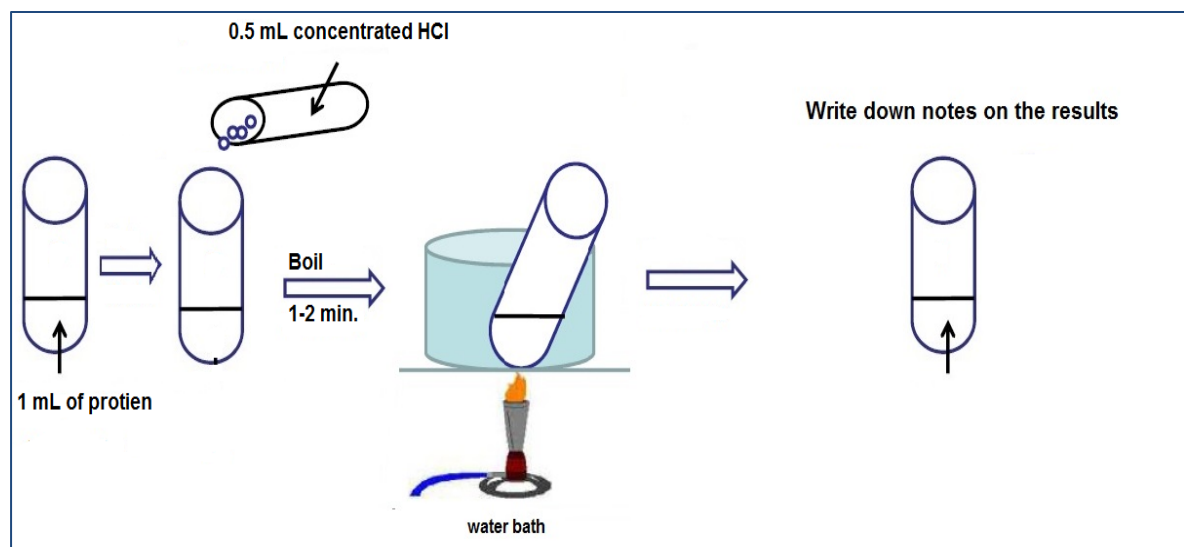
Proteins carry a negative charge and when this charge neutralizes and become positive an un-dissolved salt is formed. Acidic indicator is used to indicate the pH number when the protein carries this positive charge.

**Materials:**

1. Protein solution (0.5%)
2. Acidic indicator ( concentrated hydrochloric acid , concentrated sulfuric acid)

**Procedure:**

1. Add (1 mL) of protein solution to test tube.
2. Add (0.5 mL) of concentrated HCl acid to test tube.
3. Put the test tubes in boiling water bath for 1-2minutes.
4. Writes down the changes that happen.



**Figure 8.Precipitation of proteins using metallic acids.**