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EXPERIMENT NO. 4

NAME OF EXPERIMENT: TO DETECT THE PRESENCE OF PROTEIN IN GIVEN SAMPLE

APPARATUS REQUIRED

1. Test tube
2. Beaker
3. Egg albumen
4. Test tube holder
5. Pipette.

CHEMICALS REQUIRED

1. Dil. NaOH
2. CuSO_4 solution

PRINCIPLE

Proteins are the large, complex, organic compounds composed of any amino acids linked by the peptide bonds. Proteins are the major structural components of the muscles, skins, bones, leaves and roots. For this experiment albumen protein which is white of an egg situated around the yolk is used. Albumen is soluble in water.

OBSERVATION

Experiment	Observation	Inference
2ml of sample sol ⁿ was taken and 1-2 drops of NaOH was added. to the solution. Then 2-3 drops of CuSO ₄ was added, heated and boiled.	Sol ⁿ change into purple colour.	Presence of protein

CONCLUSION

In this experiment, protein was detected from the given sample.

PRECAUTION

1. Test tube should be completely dry.
2. Good quality reagents should be used.
3. The test tube holder should be used while heating.

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