

BIURET

Meaning: Biuret is a chemical compound used in laboratory tests to detect proteins, characterized by its ability to form a deep blue complex with copper ions.

1. The biuret reaction is commonly used to detect proteins in laboratory settings.
2. In the presence of copper ions, biuret forms a deep blue complex that indicates protein concentration.
3. Researchers often rely on the biuret test for its simplicity and effectiveness in protein analysis.
4. The biuret reagent consists of sodium hydroxide and copper sulfate, which react with peptide bonds.
5. Biuret is not only a reagent but also a compound that can be found in certain biochemical pathways.
6. When performing a biuret test, it is essential to use fresh reagents for accurate results.
7. The intensity of the color change in the biuret test correlates with the protein concentration in the sample.
8. Some variations of the biuret method enhance sensitivity for detecting low levels of protein.
9. In educational laboratories, students frequently perform the biuret test to learn about protein chemistry.
10. The biuret reaction is a classic example of a colorimetric assay in biochemistry.

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