Lect.6. Bio Chemistry Laboratory



Dr. Reem.S.Najm.

Lect. 6.

**Test for proteins** 

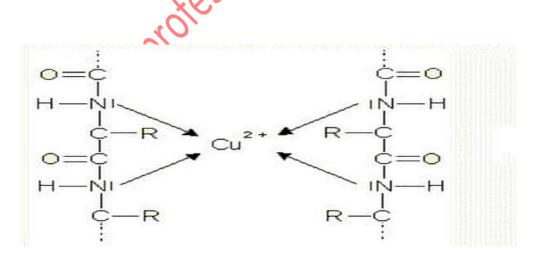
**Biuret test** 

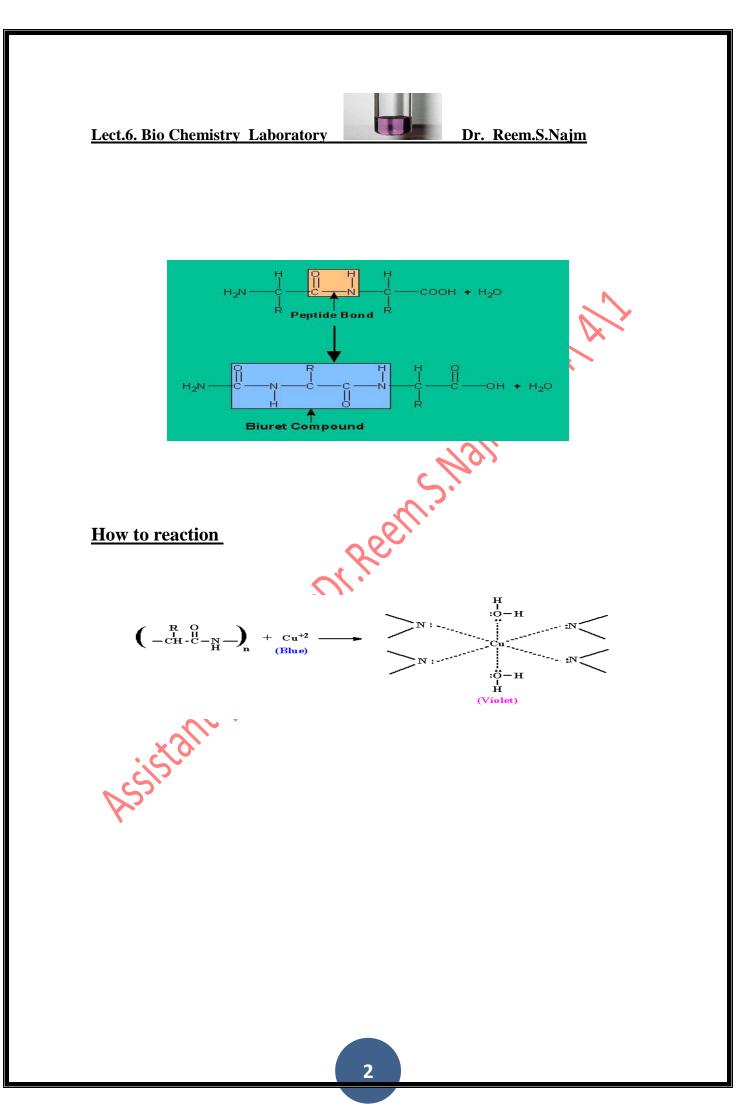
**<u>Object:</u>** To detect the presence of Protein in the given solution by biuret test.

Principle :.

This test is given by compounds containing two or more peptide bond(CO-NH group). Since all proteins and peptides two peptide linkage's .

CuSO4 reacts with compounds containing two or more peptide bonds to give a violet colored product which is due to formation of co-ordination complex of cupric ions with unshared electron pairs of peptide nitrogen and O2 of water.





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## **Reagents:**

1- (egg white albumin % 1)

2-sodium Hydroxide0.5 % solution in water ,n2024 A

**3-Copper sulphate 10% solution in water** 

**Procedure:** 

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Take two dry test tube and name them A,B.

Put in test tube A 2ml of protein solution in test tube A, and 2ml of distilled water test tube B

Add 2ml of sodium Hydroxide in both test tube.

Mix and add 4-6 drops of Copper sulphate solution drop by drop, mix and notice a violet colored.

Lect.6. Bio Chemistry Laboratory Dr. Reem.S.Najm **<u>Result</u>**: eem. Naim 2024 AN a violet colored (+Ve) negative biuret positive biuret test results test results