

Lab Day 12: Albumin PreLab Questions

- 1) Explain what protein primary, secondary, tertiary, and quaternary structures are and the important interactions that stabilize them. Which of these changes when a protein is denatured?

The primary structure of a protein involves the amino acid chain. Alpha helix and beta pleated sheets within the amino acid chains are part of the secondary structure of proteins. Tertiary structures of proteins are the folded 3D structures of alpha helices and beta pleated sheets and its interactions. These interactions hydrogen bonding, ionic bonding, dipole-dipole interactions, London dispersion forces, and disulphide bonds that stabilize the protein. The quaternary structure of proteins have multiple amino acid chains. Also, the same interactions that work for tertiary, also work for quaternary. Finally, the secondary, tertiary, and quaternary structures are disrupted when a protein is denatured.

- 2) Explain how disulfides stabilize protein structures.

The classical theory says that disulfide bonds stabilize proteins by reducing the entropy of the denatured state.

- 3) Suppose you change the conditions of a clear solution of a given protein and observe the formation of a white, flocculent (sort of fluffy) solid. Explain a simple strategy that would give preliminary indication of whether the protein was denatured or just came out of solution.

When a chemical is added to a solution of a given protein and solidifies because it was denatured, it can be renatured by taking out the added chemical. Then, the solvent is re-dissolved. But if the protein came out of solution, it can't go back to the original form.

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