

## Protein Extraction

Protein is a macromolecule which are have a long sting of amino acids that complete the important functions in the body. They are arranged in three dimensional structures. Proteins are classified according to their number of chains of amino acids. The side chains create pockets for these structures as they fold into tertiary structures according to their chemical interactions. The extraction process includes, the first step for disrupting the cells by homogenisation, cutting smashing shearing tissue into small pieces, freezing and thawing and Sonication. Cell lysis is also done with the help of detergents that break apart the cellular proteins. The next step involves centrifugation for removing cell debris. Protein inhibitors are used for the prevention of loss of proteins. Centrifugation yields cytoplasmic proteins, and buffers can be used further for nuclear proteins.

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