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Protein Analysis

National Cancer Institute

Source

National Cancer Institute. *Protein Analysis*. NCI Thesaurus. Code C18962.

Analysis of protein components in a sample. The most basic analysis involves determination of the mass or concentration of protein by any of a number of quantitative assays. Increased level of detail in the analysis requires resolution of a mixture into its component proteins. The characterization of a pure protein includes the determination of a number of its properties, among these, the molecular weight, isoelectric point, subunit composition, tryptic map, amino acid composition, amino acid sequence, hydrodynamics (s value, frictional coefficient, shape, aggregation state), thermodynamics (melting, folding, protein-protein interactions), and atomic structure (NMR, diffraction).