## Multidimensional Liquid Chromatography-Mass Spectrometry Technological Advancement in Proteome Study

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## Abstract

Liquid chromatography is a powerful separation technique widely used in analytical chemistry. It involves the diferential partitioning of analyte between a mobile phase and a stationary phase. The analyte mixture is dissolved in a liquid solvent, which serves as the mobile phase and fows through a column packed with a stationary phase material. As the mobile phase moves through the column, diferent components of the analyte mixture interact diferently with the stationary phase, leading to their separation. Various separation mechanisms, such as adsorption, partition, ion-exchange, size-exclusion, and a f nity chromatography, can be employed depending on the analyte and separation goals. The separated analyte are then detected using techniques like UV/Vis spectroscopy, mass spectrometry, or fuorescence spectroscopy. Liquid chromatography of ers high separation e f ciency, versatility, and is applied in diverse felds such as pharmaceuticals, environmental analysis, and biotechnology.

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