

MALDI Data Analysis

MALDI full name is matrix assisted laser desorption ionization. soft ionization technique used in mass spectrometry. Analysis of biomolecules and large organic molecules. The ionization is triggered by a laser beam. MALDI is a two step process first, desorption is triggered by a UV laser light leading to the ablation of the upper layer of the matrix material. Second, the analyte molecules are ionized in the hot plume. mechanism of MALDI done in three steps, formation of solid solution, matrix excitation, analyte ionization. MALDI is used for characterization and identification of large molecules and used for pharmaceutical QC monitoring of enzyme reaction, used in DNA sequencing for forensic, used to identify different strains of viruses to help develop vaccines.

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Last Updated: 20 May 2024 11:02 am