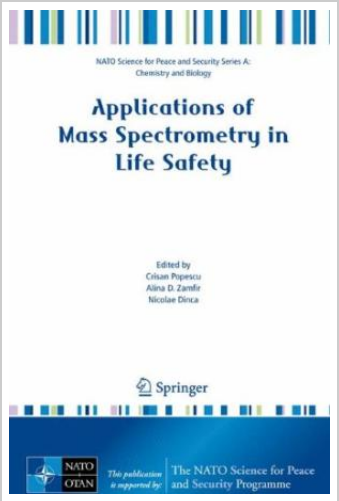

Applications of Mass Spectrometry in Life Safety (Paperback)

By -

Springer-Verlag New York Inc., United States, 2008. Paperback. Condition: New. 2008 ed.. Language: English . Brand New Book. Mass spectrometry (MS) along with its hyphenated techniques is capable of high throughput, sensitivity, accuracy and selectivity for the analysis of structure and composition of almost any product. Like in electrophoresis, MS separates mo- cules based on the mass-to-charge ratio. In case of gel electrophoresis (SDS- PAGE), a well-known and efficient bioanalytical technique, proteins bear negative charges but have the same charge density, so proteins are separated according to their size. Similarly, in case of MS analysis, proteins carry the same charge, and are separated by their molecular weight. Unlike SDS-PAGE, however, modern ultra high resolution MS discerns very small mass differences and can resolve and completely identify in a single experiment species of the same nominal mass in complex biological mixtures. Consequently, MS can be used for the structural characterization, identification and sensitive detection of mixtures of biomolecules or for assessing the quality of isolated proteins (purity, integrity, or post-translational modifications, for example), carbohydrates, nucleic acids, drugs, metabolites, pollutants etc. In the post-genome era, MS is continuously developing as one of the most re- able analytical method for elucidating the structure...

Reviews

This book is definitely not easy to get going on reading through but extremely exciting to see. I am quite late in start reading this one, but better then never. I am pleased to explain how here is the finest book i actually have read inside my individual daily life and may be he best book for ever.

-- ***Mrs. Ellie Yost II***

This is the very best publication we have read through right up until now. It is one of the most incredible book we have read through. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- ***Miss Celia Volkman***