LC/MS applications in drug development

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Abstrak

Breakthroughs in combinatorial chemistry and molecular biology, as well as an overall industry trend toward accelerated development, mean the rate of sample generation now far exceeds the rate of sample analysis in the pursuit of producing new and better pharmaceuticals. LC/MS is an analytical tool that helps the researcher identify the most promising sample early in the selection process, effectively creating a shortcut to finding new drugs. This book is the first to describe LC/MS applications within the context of drug development, including the discovery, preclinical, clinical, and manufacturing phases. In addition to the thorough technical analysis of this tool, LC/MS Applications in Drug Development provides perspective on the significant changes in strategies for pharmaceutical analysis. A process overview of drug development from an analytical point of view is provided along with essential data required to successfully bring a drug to market. The incorporation of LC/MS is illustrated from target to product. Chapters pertaining to the discovery process itself include : proteomics, glycoprotein mapping, natural products dereplication, lead identification screening, open-access LC/MS, in vitro drug screening written for both the analytical chemist who uses LC/MS applications and the pharmaceutical scientist who works with the drugs they produce.