

LC-MS/MS Applications in Support of ADME and PK/TK Studies

The ADME section will focus on qualitative LC-MS/MS instrumentation, the methodology of how to find major metabolites and the current practice to reflect “MIST” guidance in the pharmaceutical industry. Emerging technology (e.g., chip-based nanoflow) will be discussed for their unique application to support ADME studies. The bioanalysis section in support of PK/TK studies will focus on quantitative LC-MS/MS method development and validation in a GLP environment. The course will also use case studies to address common technical challenges (e.g., matrix effect, isomers and labile metabolites, etc.) and provide their practical solutions. Using the latest technologies such as UPLC and enhanced mass resolution to improve efficiency and productivity will be introduced as well. This course is recommended for drug metabolism and bioanalysis scientists who have hands-on working experiences in an ADME/BA laboratory. Scientists working in chemistry, biology, pharmaceutical science or toxicology in either drug discovery or development will gain fundamental understanding of the current ADME/BA practice in the pharmaceutical industry.

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