

Problem Solving
 Scientific Expertise
 Innovative Approach



Development of an LC-MS/MS Peptide Method

NEED

- The client had attempted to conduct a peptide bioequivalence study for using standard Enzyme-linked immunosorbent assay (ELISA) methods
- The client and bioanalytical laboratory had determined that the ELISA methods did not have the dynamic range to the range of concentrations expected following dosing of a peptide drug; this had led to multiple dilutions and emerging stability issues for the samples

APPROACH

- Development and validation of an LC-MS/MS method for the peptide solved the dynamic range, dilution and stability issues, particularly after a protease inhibitor cocktail was customized to enhance analyte stability

BENEFITS

- Although the method remained challenging to perform, the client was able to support their bioequivalence studies and make an application

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