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Factors Affecting the Performance of LC-MS/MS Peptide Mapping as a Purity Test*²

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Summary

Peptide mapping using liquid chromatography with tandem mass spectrometry (LC-MS/MS) is a fundamental methodology for identifying, characterizing, and quantifying therapeutic protein products. Here, we examine the impact of various analytical procedures on the performance of LC-MS/MS-based peptide mapping, and discuss the points that need to be considered when using this methodology as a purity test.

Key words

Peptide mapping, Liquid chromatography-mass spectrometry, Deamidation, Methionine oxidation, Glycan profile