



Case Study

Resolving Issues Before They Happen with Molecular Structure Analysis

The Challenge A new degradation product was observed in accelerated stability chromatograms for a new formulation. A tentative structural assignment was made by the customer's consultant but needed to be verified.

The Solution LC-MS/MS generated molecular weight and fragmentation pattern data verified the proposed structure. Surprisingly this structure was not predicted by Lhasa Zeneth software. However, Lhasa Zeneth did predict an oxidation product.

The Outcome Our analysis showed that a hydrolytic cascade could go on to form the degradation product. This result helped Patheon to design an improved formulation.

