

Turning up the heat on protein stability characterization

Differential Scanning Calorimetry for the regulated environment

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There is an ever-widening range of biophysical assays which play important roles in biopharmaceutical development, but using Differential Scanning Calorimetry (DSC) to characterize thermal stability gives reliable and reproducible gold standard data throughout the development pipeline.

Due to its versatile nature, DSC finds multiple uses in stability profiling, formulation development, manufacturing support, and biopharmaceutical comparability and biosimilarity analysis. Protein HOS characterization is also becoming expected in regulatory submissions for new biopharmaceutical drugs and biosimilars.

This presentation will introduce PEAQ-DSC, a new generation of MicroCal DSC systems designed for biopharmaceutical and core labs, and will detail some case study examples of the use of MicroCal DSC in formulation development and biosimilarity and biocomparability analysis applications.