Spectra Manager BeStSel

BESTSEL

β -Sheets rich proteins

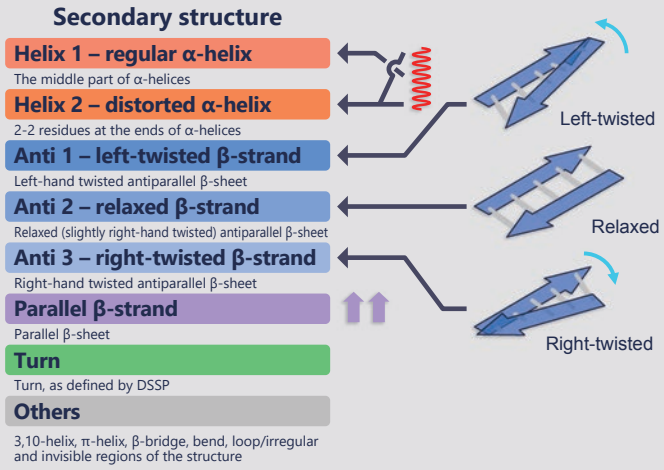
High estimation accuracy for a wide range of proteins including β-structure-rich -proteins such as antibodies.

8 TYPES

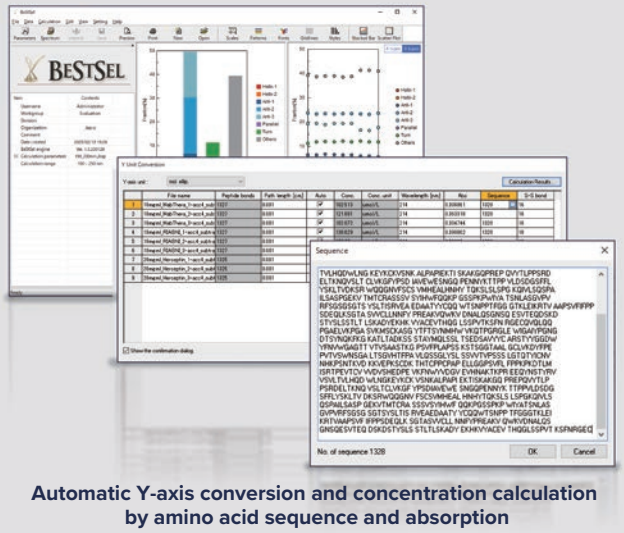
Providing eight types of secondary structure information

GxP

We also offer CFR version that complies with the data management standards of 21 CFR Part 11.



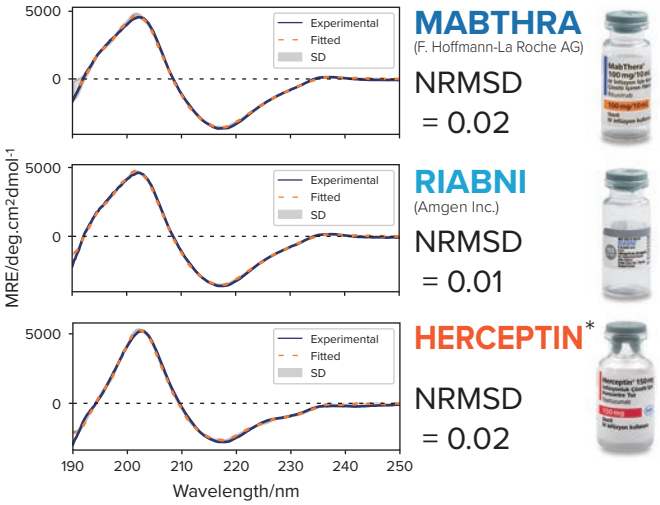
Secondary structure information obtained by BeStSel algorism



Automatic Y-axis conversion and concentration calculation by amino acid sequence and absorption

APPLICATION Secondary structure prediction of therapeutic antibodies

CD spectra of antibodies



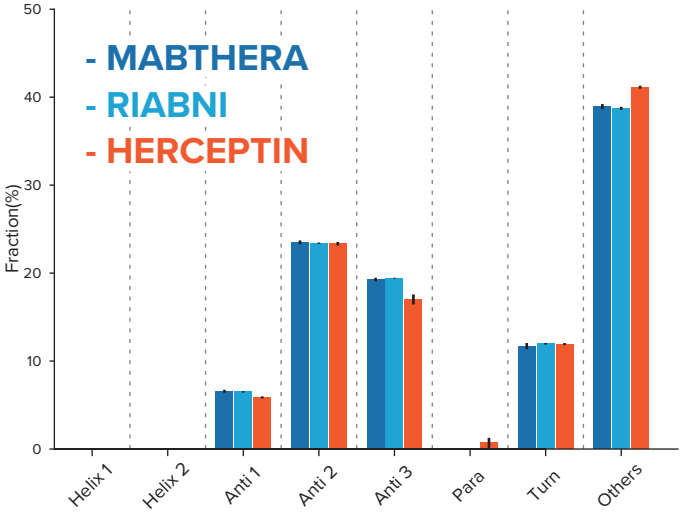
MABTHRA
(F. Hoffmann-La Roche AG)
NRMSD = 0.02

RIABNI
(Amgen Inc.)
NRMSD = 0.01

HERCEPTIN*
NRMSD = 0.02

∗ ····HERCEPTIN is a trademark of Genentech, Inc.

Secondary structure prediction



This program utilizes 'BeStSel engine', which is an algorism developed by Dr. József Kardos and Dr. András Micsonai, et. al. at ELTE (Eötvös Loránd University, Hungary).

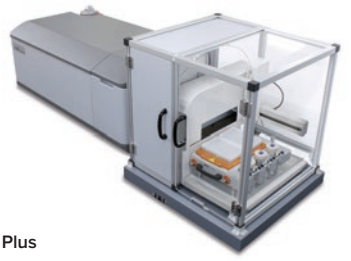
JASCO BESTSEL ELTE EÖTVÖS LORÁND UNIVERSITY

Evaluation of the Structural Stability of Antibody Drugs

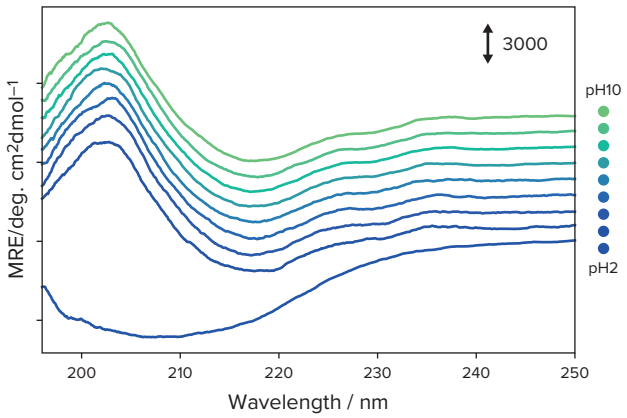
Here, we report the results of a comprehensive analysis of the secondary structure of antibody drugs under various pH conditions utilizing a seamless workflow that combines the automated CD/Absorbance(Abs)/Fluorescence(FL) measurement system HTCD Plus and Spectra Manager BeStSel.

Results of SSE showed that both Herceptin and RIABNI retained their secondary structure down to pH 3, but the ratio of Helix, β-strand, and Others changed significantly at pH 2.

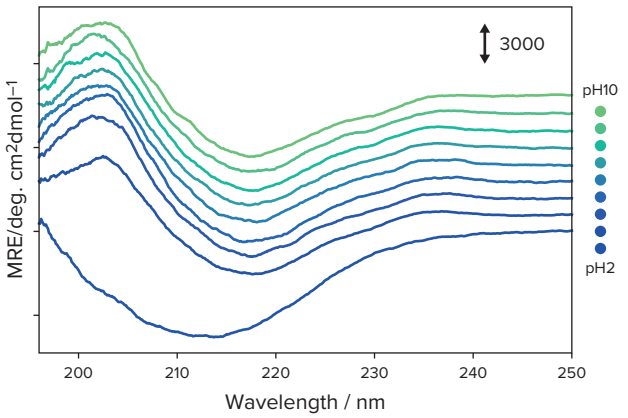
Spectra Manager BeStSel is a powerful tool for structural analysis of a wide range of proteins, including antibody drugs.



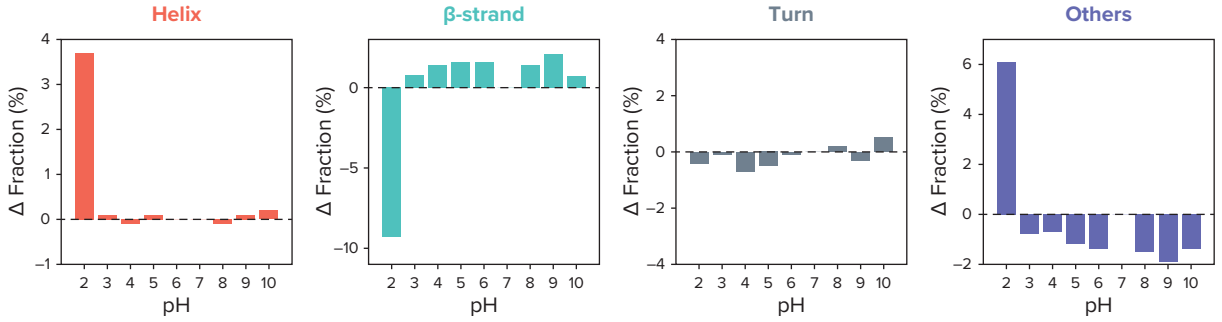
HTCD Plus
High-Throughput Circular Dichroism Measurement System



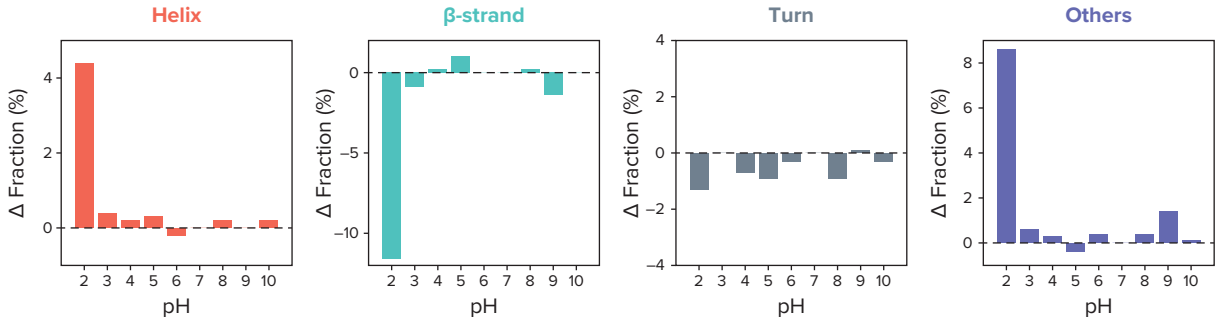
CD spectrum of Trastuzumab



CD spectrum of Rituximab



Secondary structure analysis results of Trastuzumab



Secondary structure analysis results of Rituximab

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