Spectra Manager Bestsel BESTSEL





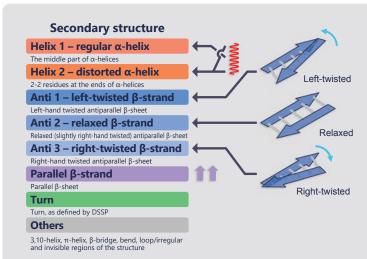
High estimation accuracy for a wide range of proteins including β-structure-rich -proteins such as antibodies.

Providing eight types of secondary structure information

BESTSEL



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 Secondary structure prediction 5000 **MABTHRA MABTHERA** NRMSD 40 **RIABNI** = 0.02**HERCEPTIN** MRE/deg.cm²dmol **RIABNI** Fraction(%) SD SD **NRMSD** = 0.015000 **HERCEPTIN** Fitted 10 SD NRMSD = 0.02Anti 3 Others 200 230 ZUM Wavelength/nm ····HERCEPTIN is a trademark of Genentech, Inc.

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).







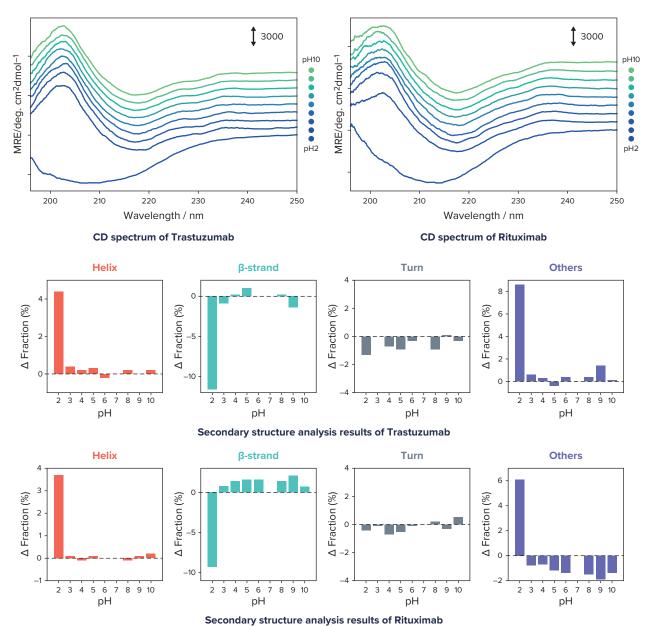
Evaluation of the Structural Stability of Antibody Drugs

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.



High-Throughput Circular Dichroism Measurement System



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JASCO CORPORATION

2967-5, Ishikawa-machi, Hachioji-shi, Tokyo 192-8537 Japan Tel: +81-42-649-5177 Fax:+81-42-646-4515 Web: www.jasco-global.com