

qHOS

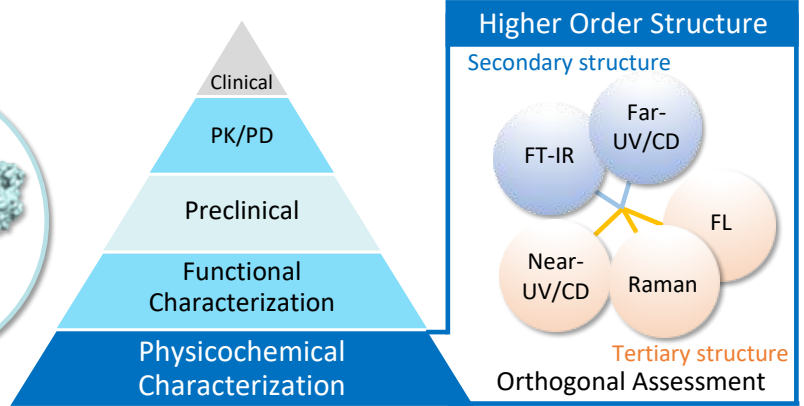
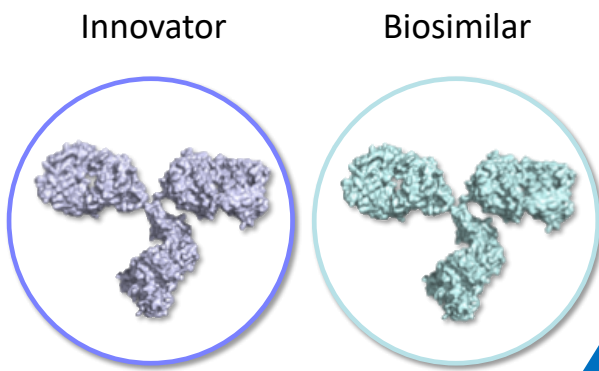
**Higher order structure
similarity evaluation software**



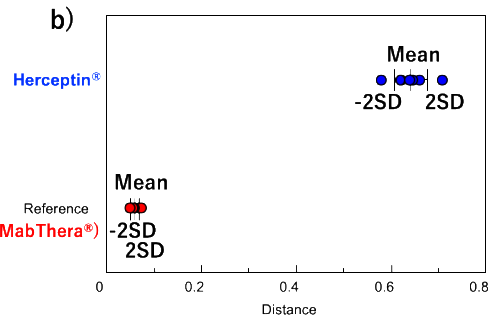
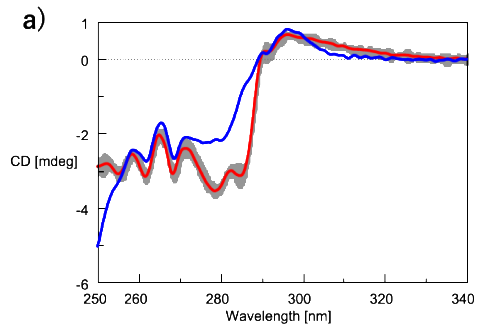
qHOS is a software that enables the statistical determination of spectral agreement, which is conventionally done by visual inspection. Weighting that takes into account spectral noise and weighting by external stimuli can be used to detect small differences in spectra with high sensitivity and robustness. spectroscopic data from various JASCO spectroscopic instruments can be analyzed on a single platform, supporting the orthogonal assessment required in the biotherapeutic development and quality control.

- **Higher order structure similarity evaluation**
- **Orthogonal similarity assessment**
- **High sensitive and robust evaluation**
- **Statistical testing**
- **Regulatory compliance with Spectra Manager CFR™**

JASCO

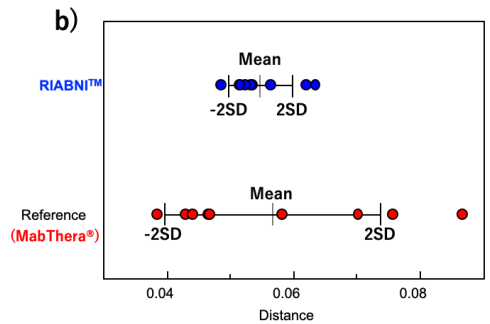
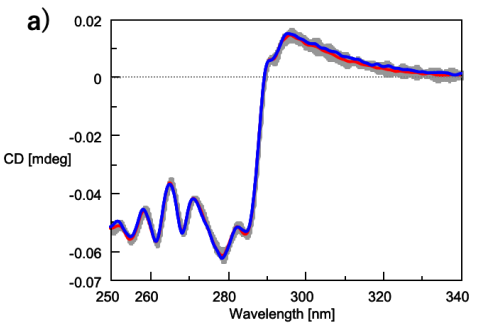


Tertiary structure similarity assessment between MabThera® (Rituximab innovator) and Herceptin® (Trastuzumab innovator)



Result of t-test
 t-value = 49
 p-value = 0.0
 Similarity failed

Tertiary structure similarity assessment between MabThera® (Rituximab innovator) and RIABNI™ (Rituximab biosimilar)



Result of t-test
 t-value = -0.32
 p-value = 0.62
 Similarity passed



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