

Pressrelease

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Detection of Protein Interaction: Label-free, Faster and Easier The FortéBio Octet System

ForteBio's Octet family of instruments and related consumables provides scientists with real-time information about biomolecular interactions. Life Science Research, Drug Discovery and Process Development applications include:

Quantitation – what is the sample concentration?

Kinetics – how fast and tight are the interactions?

- Measure **association rates**
- Measure **dissociation rates**
- Determine **affinity constants**
- Determine **specificity**



Key Benefits

Label-Free Detection: The Octet System does not require the use of detection labels to measure the binding interaction at the biosensor surface. There are no labeling steps before the analysis, and there is no interference from fluorescent or chromogenic tags.

Real-Time Results: The Octet System continuously measures the protein binding at the biosensor surface throughout the interaction. Raw data are displayed in real time and the rapid analysis fits with process workflow.

Minimal Interference: Because the Octet System only detects binding at the sensor surface, there is minimal interference from biological sample media. Proteins can be as-sayed in cell culture media or crude lysates without interference.

Automated: The Octet System is automated to perform multi-step experimental protocols and complete data analysis. The system runs up to eight samples in parallel, and up to 96 samples in unattended operation.

The Octet System is comprised of the Octet instrument, Octet software, and biosensors. The system uses Bio-Layer Interferometry (BLI) technology to enable real-time analysis of biomolecular interactions in recoverable small sample sizes.

This new approach provides greater value where existing methods such as HPLC, ELISA or surface plasmon resonance have limitations in throughput, performance and cost. Ease-of-use, fast processing times and minimal sample preparation are hallmarks of the Octet system. Up to 96 samples are analyzed in real-time and label-free in convenient microplate formats. The benchtop analyzer brings back your projects to your own lab and workflow.