Biomolecular Kinetics TT Quantitation TT Impurity Testing

Bio-Layer Interferometry (BLI) Technology

Label-free alternative for characterizing protein-protein and drug-protein interactions in standard microtiter plate format

What is BLI?

BLI is a label-free technology that measures molecular interactions in real time. Its fluidics-free design offers a number of advantages over traditional label-free techniques like Surface Plasmon Resonance (SPR) providing the ability to monitor binding specificity, rates of association and dissociation, or concentration, with precision and accuracy. Only molecules binding to or dissociating from the biosensor cause a detectable signal. Unbound molecules, changes in the refractive index of the surrounding medium, or changes in flow rate do not affect the measurement. This is BLI unique and extends its capability to perform in crude samples.

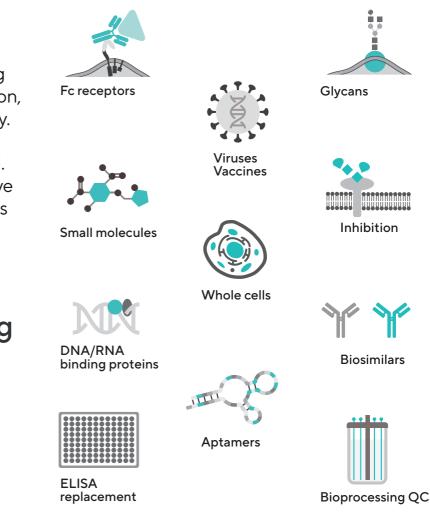
BLI provides the following experimental objectives



Binding Specificity: Do the molecules interact?



Monitor a huge variety of interactions

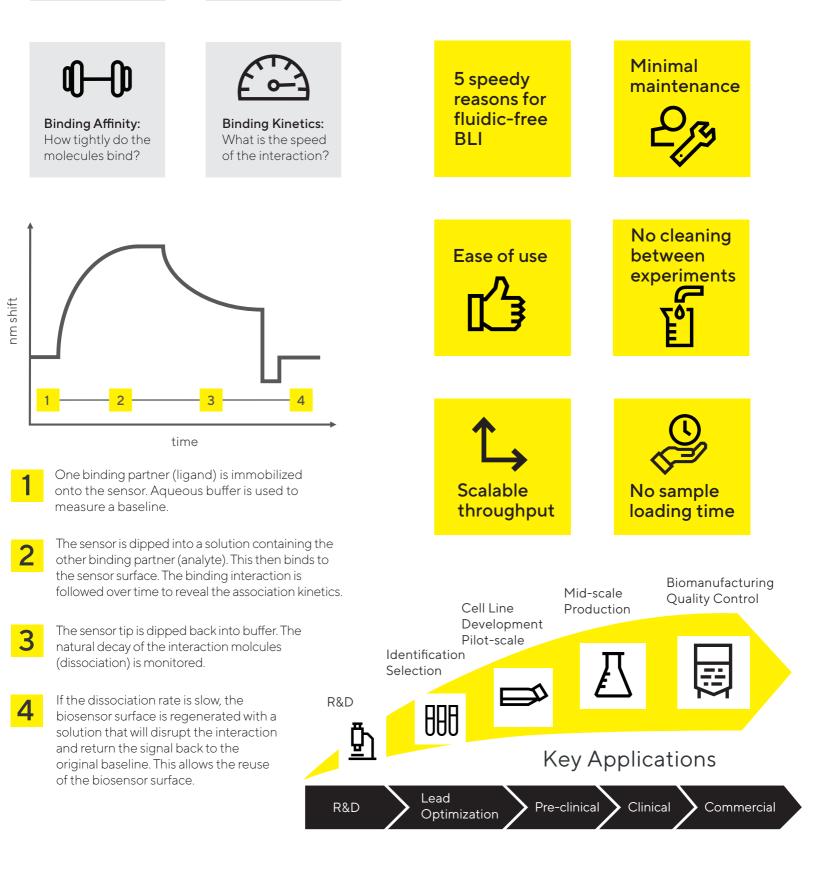






Biosimilars





Choosing a tailored system that fits your particular requirements

Advantages of label-free BLI

- Analyze unmodified molecules
- Early analytics in crude samples
- Find optimized conditions faster
- Control experiments at any time
- Reduce assay time and running cost
- Keep precious samples undamaged
- Replace individual biosensor tips
- Utilize the full range of molecular size
- Integrate automation-ready systems

Octet[®] R2 System

- High performance, label-free kinetics
- Upgradeable low-cost entry point
- Extent to 4 or 8 channels as needed



Octet[®] R4 System

- Perfect balance between cost and throughput
- High assay sensitivity with increased flexibility
- Upgrade to 8 channels at any time



Octet[®] R8 System

- Unmatched versatility and flexibility
- Long off-rate measurement
- Upgrade to GMP for regulatory compliance



Octet® RH16 System

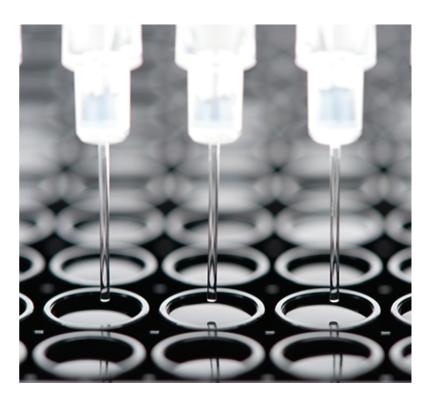
- Higher levels of throughput, speed, and flexibility for small and large molecule characterization
- Automation ready and robot compatible
- GxP packages available



Octet[®] N1 System

- Interaction analysis in 4 μL sample
- Portable, easy to use system
- Protein guantification in crude samples





Dip & Read Biosensors

are coated with a uniform, nondenaturing biocompatible matrix that provides minimal non-specific binding, even in crude, unfiltered samples. A broad range of surface chemistries lets you design experiments with maximum flexibility customizing the biosensor surface for unique applications. Multiple layers can be bound and detected. To date, several million biosensor assays have been run on Octet[®] systems, proving high reproducibility, accuracy, precision, and robustness of the platform. All biosensors are manufactured in a ISO 9001:2008 certified facility.

Octet[®] RH96 System

- Unprecedented throughput with 96 samples in parallel
- Ideal for epitope binning or multi-step quantitation
- Automation ready and robot compatible
- GxP packages available





The Octet[®] family of instruments meet a broad range of application and workfow requirements.

Your local Sartorius representative can provide detailed information on system capabilities and our extensive library of Octet[®] application solutions to help you choose the system that's right for your lab.



Contact us and talk to a specialist today! www.sartorius.com/octet