





Advanced SPR Biacore™ and BLI Octet® Services for Biopharmaceutical Analysis

At Eurofins BioPharma Product Testing we offer state-of-the-art services for Surface Plasmon Resonance (SPR) using Biacore™ (Cytiva) and Bio-Layer Interferometry (BLI) using Octet® (Sartorius AG) platforms for real-time monitoring of molecular interactions of biopharmaceuticals. SPR and Octet are optical, label-free technologies that provide real-time, quantitative data into molecular interactions, offering an alternative to endpoint technologies like ELISA. Our analytical solutions deliver high-quality kinetic and binding affinity data for a broad range of biomolecular interactions with their targets including antibodies, nanobodies,

nucleic acids and peptides, supporting informed decision-making in characterisation studies and GMP Quality Control.

Key Differences: SPR Biacore™ vs. BLI Octet®

Both SPR and BLI offer valuable insights into biomolecular interactions. The choice between the two depends on the specific requirements of the analysis, considering factors as stated below:

Feature	SPR Biacore™	BLI Octet®
Detection Technology	Surface Plasmon Resonance	Bio-Layer Interferometry
	Gold-coated sensor chip with immobilised ligand and microfluidic system	Biosensors dipped samples (fluidics-free)
Signal Measurement	Change in refractive index	Wavelength shift
Sensitivity	High, ideal for weak interactions	Moderate to high, suitable for high-affinity interactions
Throughput	Medium	High (96/384-well format)
Sample Consumption	Low	Higher compared to SPR
Sample analysis time	Several hours for low sample number	~30 minutes for 96 samples
Data output	Real-time kinetic data (sensorgram)	Real-time kinetic data (sensorgram)
Instruments		

Applications of SPR Biacore & BLI Octet

At Eurofins BioPharma Product Testing, we provide SPR and BLI analysis services to study biomolecular interactions between proteins/peptides, nucleic acids, etc. and their respective targets.

- **Steady State Affinity Assay:** Analyte concentration at 50% binding
- **Kinetic Assay:** Characterisation of binding kinetics
- **Concentration Analysis:** Sample concentration determined from standard curve
- **Potency Measurement**

GMP-Compliant Sample Testing

We provide comprehensive sample testing under Good Manufacturing Practice (GMP) guidelines, ensuring compliance with regulatory standards for biopharmaceutical development and production. Our GMP testing services include:

- **Batch Release Testing**
- **Stability sample Testing**
- **Characterisation studies**

Why Choose Our Services?

With over a decade of experience in biomolecular interaction analysis, we have developed specialised expertise not only in operating SPR and BLI

instruments but also in precise assay design and data analysis. This comprehensive approach ensures accurate, high-quality insights into biomolecular interactions, supporting critical research and regulatory needs.

- **Expertise:** Highly skilled scientists with extensive experience in interaction analysis.
- **Custom Assays:** Tailored solutions designed to meet the specific needs of our clients.
- **High Sensitivity & Accuracy:** Advanced instrumentation for kinetic and affinity measurements.
- **GMP Compliant Sample Testing:** Reliable, regulatory-compliant testing for quality control and batch release.

Partner with Eurofins BioPharma Product Testing for high-quality SPR Biacore™ and BLI Octet® solutions.

Contact Us:

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Comprehensive GMP Testing Services

Method Development & Validation • Release Testing • Raw Materials Testing
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