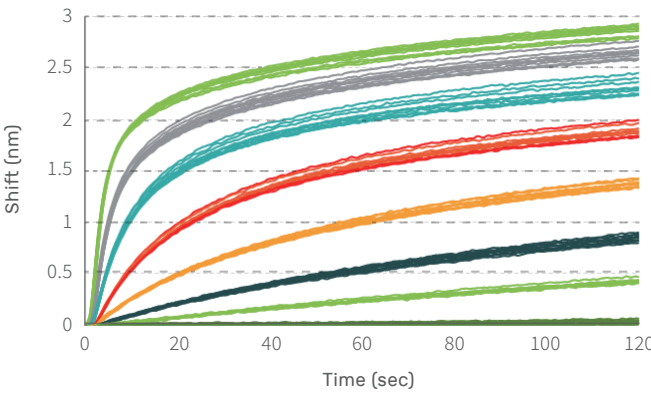




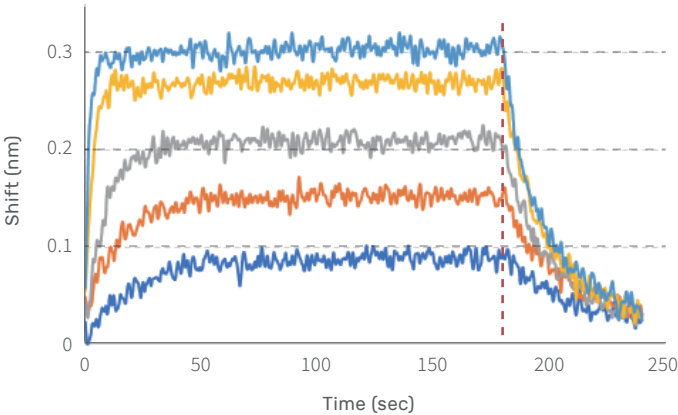
A Full Suite of Applications

Gator® Probe	Function	Application	Dynamic Range	Regeneration
ProA	IgG titer	Q	0.02 – 2000 µg/mL	Yes
SA	Biotinylated and Avi-tagged molecules	K/EP	Protein dependent	No
MFC	Mouse IgG characterization	Q/K/QKR/EP	0.02 – 2000 µg/mL	Yes
HFC	Human IgG characterization	Q/K/QKR/EP	0.05 – 300 µg/mL	Yes
HFCII	Advanced human IgG characterization	Q/K/QKR/EP	0.3 – 6000 µg/mL	Yes
SMAP	Measurement of small molecule, peptides, etc.	K	>150 Da	No
HS AAV	High sensitivity quantification of AAV serotypes 1-8	Q	5x10 ⁶ – 5x10 ¹⁰	No
HS AAV9	High sensitivity quantification of AAV serotype 9	Q	1x10 ⁷ – 1x10 ⁹	No
AAVX	AAV serotypes & kinetics	Q/K	1x10 ⁹ – 1x10 ¹³	Yes
AAV9	Specific to AAV9 serotype	Q/K	3x10 ⁹ – 1x10 ¹³	Yes
Anti-FAB	F(ab), F(ab') ₂	Q/K/QKR/EP	0.3 – 3000 µg/mL	Yes
Flex SA	Reusable SA probes	K	Protein dependent	Yes
His	His-tagged proteins	Q/K/QKR/EP	Protein dependent	Yes
Ni-NTA	His-tagged proteins through Tris-NTA charged with ions	Q/K/QKR/EP	0.25 – 1000 µg/mL	Yes
APS	Direct adsorption	K	Protein dependent	No
AR	Amine coupling immobilization	K/EP	Protein dependent	No
ProG	IgG titer	Q	0.02 – 2000 µg/mL	Yes
ProL	Kappa light chain titer	Q	0.02 – 2000 µg/mL	Yes
Anti-Rabbit	Rabbit-IgG	Q/K	1 – 500 µg/mL	Yes
Anti-FLAG	FLAG-tagged proteins	K	Protein dependent	No
SARS-RBD	RBD antibodies and receptors	Q	Protein dependent	Yes
Anti-GST	GST-tagged proteins	Q/K	Protein dependent	Yes for K No for Q

Significantly Improved Performance



For each concentration level, MFC probes show less than 5% quantitation CV% through 10 cycles of regeneration.



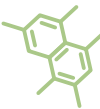
The association and disassociation curves of furosemide (330 Da) binding to carbonic anhydrase II (30 kDa) using SMAP probes on a Gator® Prime instrument.



Gator® Label-Free Analysis Systems

The Next-Gen Biolayer Interferometry

GatorBio.com



About Gator Bio

Gator Bio develops, manufactures, and markets life science analytical technologies including Gator® systems based on the next-gen Biolayer Interferometry. The company was founded by the industry veterans Dr. Hong Tan and Mr. Bob Zuk. Previously, Dr. Hong Tan founded ForteBio® and led the invention of Octet® BLI technology.

Gator Bio together with its sister companies have more than 600 employees worldwide and sell both diagnostics and research-use-only products. The company is ISO13485 certified. Gator® systems have been adopted by scientists and researchers in North America, Asia Pacific, Europe, and Middle East.

The investors of the company include Legend Capital, Matrix Partners, Maison Capital, Qiming Venture, HillHouse, Sequoia Capital, Kaiser Permanente, and Sinovation etc.

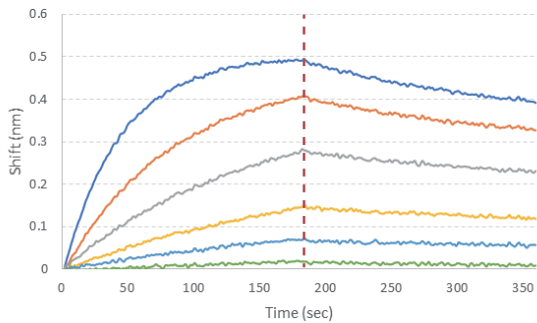
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Biolayer Interferometry (BLI)

Gator® systems are label-free analysis instruments based on next-gen biolayer interferometry (BLI) technology. BLI detects biomolecular interactions by immersing biosensing probes in samples.

Gator® probes are micro glass rods with the distal ends coated with proprietary optical layers and surface chemistries.

The association or disassociation of biomolecules causes a phase-shift of the optical interference pattern generated from a probe's sensing surface. Continuous measurements of the phase-shift yield binding curves.



The sensorgram shows the real-time association and disassociation curves for a binding kinetics experiment using a Gator® system.

The ease of use, versatility, flexibility, and throughput of Gator® systems have enabled many applications in therapeutic development, manufacturing, and life science research.



A Powerful Tool for Discovery, Development, and Manufacturing

The next-gen BLI demonstrates higher sensitivity and more robust performance than the other commercial BLI products. It also supports wider range of applications, from drug discovery to therapeutics manufacturing.

Biotherapeutics

- Antibody titer measurements
- Kinetics analysis
- Epitope binning
- Process development
- Manufacturing QC
- Pharmacokinetics

Gene Therapy

- AAV quantitation & kinetics
- Receptor interaction
- Gene expression

Drug Discovery & Development

- Protein – small molecule interaction
- Peptide binding analysis

Life Science Research

- Protein – protein interaction
- Receptor – ligand binding
- Assay development and optimization

A User-Friendly Label-Free Technology

Gator® Systems consist of instruments, probes, and integrated data acquisition and analysis software pack-age.

- Simple and fast assay setup
- Automated quantitation
- Quantitation, kinetics, and regeneration in one run
- Kinetics and affinity analysis
- Real-time binding curves
- Epitope binning
- Assay template generation
- Report generation

Gator® Software for GMP and GLP

Gator® Part11 Software enables users in GMP or GLP environments to comply with FDA 21 CFR Part 11 regulations. All data acquired with the Part11 Software is time-stamped and traceable. Features such as account management, enhanced audit trails, and recorded user sessions are in compliance with FDA guidance.



General Specifications

	Gator® Prime	Gator® Plus
Detection technology	Next Gen Biolayer Interferometry	
Number of channels	8	
Data acquisition rate	2, 5, 10 Hz	
Dimensions and weight (H x W x D)	46 x 67 x 32 cm 30 kg	63 x 73 x 44 cm 50 kg
Electrical	110V – 220V 5A < 240W	
Temperature control	Ambient – 40°C	

Performance Specifications

	Gator® Prime	Gator® Plus
Sample types	Proteins, antibodies, peptides, nucleic acids, liposomes, viruses, small molecules	
Assay plate format	2 x 96-well plates	1 x 384-well & 1 x 96-well plates
Max samples per run	168	456
Types of analysis	Yes/no binding, quantitation, kinetics, affinity, off-rate ranking, epitope binning	
Minimum sample volume	100 µL	40 µL
Tilting shaker	Manual tilting	Motorized tilting
Baseline noise	< 3 pm (RMS)	
Baseline drift	< 120 pm/hour	
Association rate k_{on}	$10^1 - 10^6 \text{ M}^{-1} \text{ s}^{-1}$	
Dissociation rate k_{off}	$10^{-6} - 10^{-1} \text{ s}^{-1}$	
Affinity constant K_D	10 pM – 1 mM	