About Gator

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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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Version: US1-MKT-LIT-19







Gator[®] Pilot

Gator[®] Prime

Gator[®] Plus

Type of analysisProteins.antibiosuper, triutese, small moleculeSimultaneous reads488Aand 168,16,24, and 32Maximum sample capet/ Molecular weight>150 Da>150 Da>150 Da>150 DaAssociation rate (k,) Dissociation rate (k,) Di		Performance							
Maximum sample capacity 40 168 456 816 1152 Molecular weight > 150 Da Association rate (k_m) 10' to 10' M'S'1 10' to 10' S'1 10' to 10	Type of analysis	Proteins, antibodies, peptides, nucleic acids, liposomes, viruses, small molecules							
Numerication relative Notice	Simultaneous reads	4	8	8	8 and 16	8, 16, 24, and 32			
Association rate (k _m) 10 ¹ to 10 ⁷ M ¹ s ⁻¹ 10 ¹ to 10 ⁷ M ¹ s ⁻¹ 10 ¹ to 10 ⁷ M ¹ s ⁻¹ 10 ¹ to 10 ⁷ M ¹ s ⁻¹ Dissociation rate (k _m) 10 ⁿ to 10 ² M ¹ s ⁻¹ 10 ⁿ to 10 ¹ s ⁻¹ 10 ⁿ to 10 ⁿ s ⁻¹ 10 ⁿ to 10 ⁿ s ⁻¹ Affinity constant (k _m) 10 ⁿ to 10 ² M ¹ s ⁻¹ 10 ⁿ to 10 ⁿ s ⁻¹ 10 ⁿ to 10 ⁿ s ⁻¹ 10 ⁿ to 10 ⁿ s ⁻¹ Affinity constant (k _m) 10 pM - 1 mM Quantitation range (Protein A biosensor) 0.02 - 2000 µg/mL 0.02 -	Maximum sample capa	city 40	168	456	816	1152			
Notice in the intervention of the interventinter intervention of the intervention o	Molecular weight	> 150 Da	> 150 Da	> 150 Da	> 150 Da	> 150 Da			
Affinity constant (K _p) 10 pM - 1 mM Quantitation rate 0.02 - 2000 µg/mL	Association rate (k _{on})	10 ¹ to 10 ⁷ M ⁻¹ s ⁻¹	10 ¹ to 10 ⁷ M ⁻¹ s ⁻¹	10 ¹ to 10 ⁷ M ⁻¹ s ⁻¹	10 ¹ to 10 ⁷ M ⁻¹ s ⁻¹	10 ¹ to 10 ⁷ M ⁻¹ s ⁻¹			
Quantitation rate (p) Interface <thinterface< th=""></thinterface<>	Dissociation rate (k _{off})	10 ⁻⁶ to 10 ⁻¹ s ⁻¹	10 ⁻⁶ to 10 ⁻¹ s ⁻¹	10 ⁻⁶ to 10 ⁻¹ s ⁻¹	10 ⁻⁶ to 10 ⁻¹ s ⁻¹	10 ⁻⁶ to 10 ⁻¹ s ⁻¹			
(Protein A biosensor) 0.02 = 2000 µg/mL 0.0	Affinity constant (K_D)	10 pM – 1 mM	10 pM – 1 mM	10 pM – 1 mM	10 pM – 1 mM	10 pM – 1 mM			
Initial controlNoS 4 pmS 4 pmS 4 pmS 4 pmS 4 pmBaseline drift ≤ 0.12 nm/hour ≤ 0.12 nm/hour ≤ 0.1 nm/hour ≤ 0.1 nm/hour ≤ 0.1 nm/hourAcquisition rate2, 5, and 10 Hz2, 5, and 10 Hz2, 5, and 10 Hz2, 5, and 10 Hz2, 5, and 10 HzControl2, 5, and 10 Hz2, 5, and 10 Hz2, 5, and 10 Hz2, 5, and 10 Hz2, 5, and 10 HzSpectrometers4881632Sample microplate*96-well format ¹² 96 or 384-well format ^{12.34} 2 x 96 or 384-well format ^{12.34} 3 x 96 or 384-well format ^{12.34} Evaporation controlNoNoNoYesNoSample temperature controlNoNoNoYesMinimum sample volume180 µL1130 µL240 µL440 µL4Smart monitoringNoNoNoYesSelf-cleaningNoNoNoYesYesDimension - HxWxD (cm)49 x 68 x 3347 x 67 x 3168 x 73 x 4492 x 87 x 7984 x 114 x 77	Quantitation range (Protein A biosensor)	0.02 – 2000 µg/mL	0.02 – 2000 µg/mL	0.02 – 2000 µg/mL	0.02 – 2000 µg/mL	0.02 – 2000 µg/mL			
Baseline drift ≤ 0.12 nm/hour ≤ 0.12 nm/hour ≤ 0.12 nm/hour ≤ 0.1 nm/hour ≤ 0.1 nm/hour Acquisition rate 2, 5, and 10 Hz <	Binning capacity	6x6	12x12	16x16	20×20	32x32			
Acquisition rate 2, 5, and 10 Hz 2, 5, and	Baseline noise (RMS)	≤ 4 pm	≤ 4 pm	≤ 4 pm	≤ 4 pm	≤ 4 pm			
Spectrometers4881632Sample microplate*96-well format196-well format1296 or 384-well format123.42 x 96 or 384-well format123.43 x 96 or 384-well format123.4Evaporation controlNoNoNoYesNoSample temperature controlNoNoYesAmbient plus 4*°C to 40°C4*°C to 40°C4*°C to 40°C4*°C to 40°CAutomation compatibleNoNoNoYesYesMinimum sample volume180 µL1130 µL240 µL440 µL440 µL4Smart monitoringNoNoNoYesYesSelf-cleaningNoNoNoYesYesDimension - HxWxD (cm)49 x 68 x 3347 x 67 x 3168 x 73 x 4492 x 87 x 7984 x 114 x 77	Baseline drift	≤ 0.12 nm/hour	≤ 0.12 nm/hour	≤ 0.1 nm/hour	≤ 0.1 nm/hour	≤ 0.1 nm/hour			
Spectrometers481632Sample microplate*96-well format¹96-well format¹296 or 384-well format¹2.342 x 96 or 384-well format¹2.343 x 96 or 384-well format¹2.34Evaporation controlNoNoNoYesNoSample temperature controlNoNoNoYesAmbient plus 4*C to 40°CAutomation compatibleNoNoNoYesYesMinimum sample volume180 µL¹130 µL²40 µL440 µL440 µL4Smart monitoringNoNoNoYesYesSelf-cleaningNoNoNoYesYesDimension - HxWx (cm)47 x 67 x 3168 x 73 x 4492 x 87 x 7984 x 114 x 77	Acquisition rate	2, 5, and 10 Hz	2, 5, and 10 Hz	2, 5, and 10 Hz	2, 5, and 10 Hz	2, 5, and 10 Hz			
Sample microplate*%6-well format1%6-well format12%6 or 384-well format12.3.4%2 x %6 or 384-well format12.3.4% x %6 or 384-well format12.3.4Evaporation controlNoNoNoYesNoSample temperature controlAmbient plus 4°C to 40°CAmbient plus 	Specifications								
Sample microplate*format1234format1234Evaporation controlNoNoNoYesNoSample temperature controlAmbient plus 4°C to 40°CAmbient plu	Spectrometers	4	8	8	16	32			
Sample temperature ControlAmbient plus 4°C to 40°CAmbient plus 4°C to 40°LAmbient plus 4°C to 40°L </th <th>Sample microplate*</th> <th>96-well format¹</th> <th>96-well format^{1,2}</th> <th>96 or 384-well format^{1,2,3,4}</th> <th></th> <th></th>	Sample microplate*	96-well format ¹	96-well format ^{1,2}	96 or 384-well format ^{1,2,3,4}					
Control 4°C to 40°C <	Evaporation control	No	No	No	Yes	No			
Minimum sample volume 180 µL ¹ 130 µL ² 40 µL ⁴ 40 µL ⁴ 40 µL ⁴ Smart monitoring No No Yes Yes Self-cleaning No No Yes Yes Dimension - HxWxD (cm) 49 x 68 x 33 47 x 67 x 31 68 x 73 x 44 92 x 87 x 79 84 x 114 x 77		•	•	•	15°C to 40°C				
Smart monitoring No No Yes Yes Self-cleaning No No Yes Yes Dimension - HxWxD (cm) 49 x 68 x 33 47 x 67 x 31 68 x 73 x 44 92 x 87 x 79 84 x 114 x 77	Automation compatible	e No	No	No	Yes	Yes			
Self-cleaning No No No Yes Yes Dimension - HxWxD (cm) 49 x 68 x 33 47 x 67 x 31 68 x 73 x 44 92 x 87 x 79 84 x 114 x 77	Minimum sample volun	ne 180 μL ¹	130 µL²	40 µL ⁴	40 µL4	40 µL4			
Dimension - HxWxD (cm) 49 x 68 x 33 47 x 67 x 31 68 x 73 x 44 92 x 87 x 79 84 x 114 x 77	Smart monitoring	No	No	No	Yes	Yes			
	Self-cleaning	No	No	No	Yes	Yes			
Weight (kg) 31 kg 35 kg 55 kg 130 kg 220 kg	Dimension - HxWxD (cr	n) 49 x 68 x 33	47 x 67 x 31	68 x 73 x 44	92 x 87 x 79	84 x 114 x 77			
	Weight (kg)	31 kg	35 kg	55 kg	130 kg	220 kg			

*Gator Bio offers ¹96-well flat-bottom, ²96-well tilt-bottom, ³384-well flat-bottom and ⁴384 - well tilt-bottom microplates for range of BLI applications



Gator® Pivot

Gator[®] Pro



Gator® Total Solutions

The Next-Gen Biolayer Interferometry



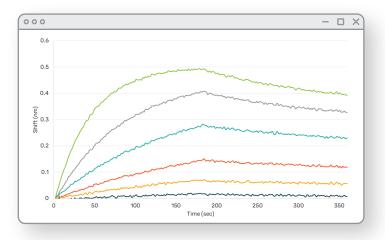


Biolayer Interferometry (BLI)

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



Drug Discovery & Development

- Protein small molecule interaction
- Peptide binding analysis



Gene Therapy

- AAV quantitation & kinetics Receptor interaction
 - Gene expression
- Neutralizing/ Total Antibody Detection



Life Science Research

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

A User-Friendly Label-Free Technology

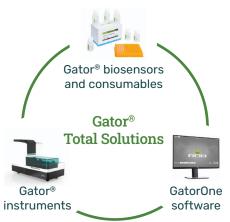
Gator[®] systems consist of instruments, probes, and integrated data acquisition and analysis software package.

- Simple and fast assay setup
- Automated guantitation
- 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 \sim

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 quidance.



A Full Suite of Applications

Gator [®] Probes	Function	Applications	Dynamic Range	Regeneration
ProA	lgG titer	Q	0.02-2000 µg/mL	Yes
ProG	IgG titer	Q	0.02-2000 µg/mL	Yes
ProL	Kappa light chain titer	Q	0.02-2000 µg/mL	Yes
SA	Biotinylated and Avi-tagged molecules	K/EP	Protein dependent	No
SA XT	Biotinylated proteins and large molecules	K	Protein dependent	No
Flex SA	Reusable SA kit	К	Protein dependent	Yes
SMAP	Measurement of small molecules, peptides (<150 Da)	K	Protein dependent	No
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
MFC	Mouse IgG characterization	Q/K/QKR/EP	0.02-6000 µg/mL	Yes
Anti-FAB	F(ab), F(ab)2	Q/K/QKR/EP	0.3-3000 µg/mL	Yes
APS	Direct adsorption	K	Protein dependent	No
AR	Amine coupling immobilization	K/EP	Protein dependent	No
His	His-tagged proteins	Q/K/QKR/EP	Protein dependent	Yes
Ni-NTA	His-tagged proteins through Ni-NTA	Q/K/QKR/EP	0.25-1000 µg/mL	Yes
Strep-Tactin XT	Proteins with Twin-Strep-tag®	Q/K	Protein dependent	Yes
Anti-PEG	PEGylated lipid-based molecules	Q/K	Analyte dependent	No
Anti-GST	GST-tagged proteins	Q/K	Protein dependent	No for Q
AAVX	Direct binding titer (AAV1-10)	Q/K	1x10°-1x10 ¹³ vp/mL	Yes
AAV9	Direct binding titer (AAV9)	Q/K	3x10 ⁹ -1x10 ¹³ vp/mL	No
HS AAV	High sensitivity titer (AAV1-8, 10)	Q	1x10 ⁷ -5x10 ¹⁰ vp/mL	No
HS AAV9	High sensitivity titer (AAV9)	Q	1x10 ⁷ -1x10 ⁹ vp/mL	No
AAV Ratio	Empty vs Full Ratio Determination	Ratio	0-100% full	No