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.

Contact Us \sim

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Version: US1-MKT-LIT-19







Gator® Pilot

Gator® Prime

Gator® Plus

| Performance | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| Type of analysis | Proteins, antibodies, peptides, nucleic acids, | | liposomes, viruses, small molecules | | | | | |
| Simultaneous reads | 4 | 8 | 8 | 8 and 16 | 8, 16, 24, and 32 | | | |
| Maximum sample capac | ity 40 | 168 | 456 | 816 | 1152 | | | |
| Molecular weight | > 150 Da | | | |
| 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 | | | |
| Dissociation rate (k _{off}) | 10 ⁻⁶ to 10 ⁻¹ s ⁻¹ | | | |
| Affinity constant (K _D) | 10 pM – 1 mM | | | |
| Quantitation range Protein A biosensor) | 0.02 – 2000 µg/mL | | | |
| Binning capacity | 6x6 | 12x12 | 16x16 | 20x20 | 32x32 | | | |
| Baseline noise (RMS) | ≤ 4 pm | | | |
| Baseline drift | ≤ 0.12 nm/hour | ≤ 0.12 nm/hour | ≤ 0.1 nm/hour | ≤ 0.1 nm/hour | ≤ 0.1 nm/hour | | | |
| Acquisition rate | 2, 5, and 10 Hz | | | |
| | | Sp | ecifications | | | | | |
| Spectrometers | 4 | 8 | 8 | 16 | 32 | | | |
| Sample microplate* | 96-well format ¹ | 96-well format ^{1,2} | 96 or 384-well format ^{1,2,3,4} | 2 x 96 or 384-well format ^{1,2,3,4} | 3 x 96 or 384-well format ^{1,2,3,4} | | | |
| Evaporation control | No | No | No | Yes | No | | | |
| Sample temperature control | Ambient plus 4°C to 40°C | Ambient plus 4°C to 40°C | Ambient plus 4°C to 40°C | 15°C to 40°C | Ambient plus 4°C to 40°C | | | |
| Automation compatible | No | No | No | Yes | Yes | | | |
| Minimum sample volum | e 180 μL ¹ | 130 µL² | 40 µL4 | 40 µL4 | 40 µL4 | | | |
| Smart monitoring | 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 | | | |
| | | | | | | | | |

*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



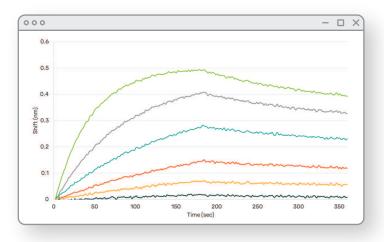


Biolayer Interferometry (BLI)

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

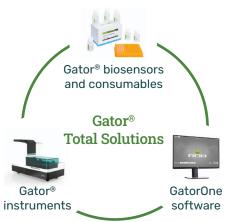
Gator[®] systems consist of instruments, probes, and integrated data acquisition and analysis software package.

- 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 | lgG 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) | К | 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 |