

Gator® GatorOne v2.17 Release Notes

Release April 2025

Introduction

Version 2.17.0416 of GatorOne is intended to operate the Gator® instrument.

This document is intended for current Gator Bio customers who have a Gator instrument and use the GatorOne software for assay setup and data analysis.

Product Number: 600001

Supported Instruments: Gator® Pilot, Gator® Prime and Gator® Plus (all serial numbers)

Supported operating systems: Windows 10

Important note: This software supports downward compatibility only. Data collected using Version 2.17 cannot be imported into earlier versions. However, all data from previous versions can be seamlessly imported and analyzed in Version 2.17.

Release Note Contents:

1. Changes Since Last Release
2. Upgrade Instruction

1.0 SELECTED CHANGES SINCE LAST RELEASE

1.1 Assay Setup New Features

- 1.1.1 Introduced a disk space warning message to alert users when storage is running low (default threshold: 1 GB), helping to prevent data loss or storage issues.
- 1.1.2 Implemented a temperature detection process during experiments, triggering an alert for any temperature difference exceeding 2°C to ensure accurate and reliable results.
- 1.1.3 Enhanced Quantitation Assay Setup, enabling users to assign groups for calculating average concentrations and coefficient of variation (CV) within groups.

The screenshot shows the 'Sample Info Editor' dialog box with the following fields:

- Sample Info:**
 - Sample Name: Unknown
 - Replicate Group: 1
 - Information: (empty text area)
- Q Well Data:**
 - Dilution Factor: 5
 - Conc. (µg/mL): (empty)
- Dilution Series:**
 - Apply to: Conc. (µg/mL)
 - Starting Value: (empty)
 - Operator: /
 - Operand: (empty)
 - Orientation: Top-Bottom
 - Duplicate: Single

Buttons: Confirm, Cancel

- 1.1.4 Updated Kinetics Assay Setup to allow users to toggle regeneration on or off for each assay within a single experiment. Below is an example demonstrating that Assay5, when unchecked, will bypass regeneration after completion.

The screenshot shows the 'Regeneration Settings' dialog box with the following components:

- Regeneration:**
 - Assay dropdown menu (Assay 5 is selected)
 - Off On toggle (On is active)
 - Table:

- 3 +	Time (sec)	(rpm)
Regeneration	5	0
Neutralization	5	0
- Mode Settings:**
 - Regeneration Before Assay: All (dropdown), Off On toggle (On is active)

Buttons: Save, Cancel

1.2 Assay Setup Amendment

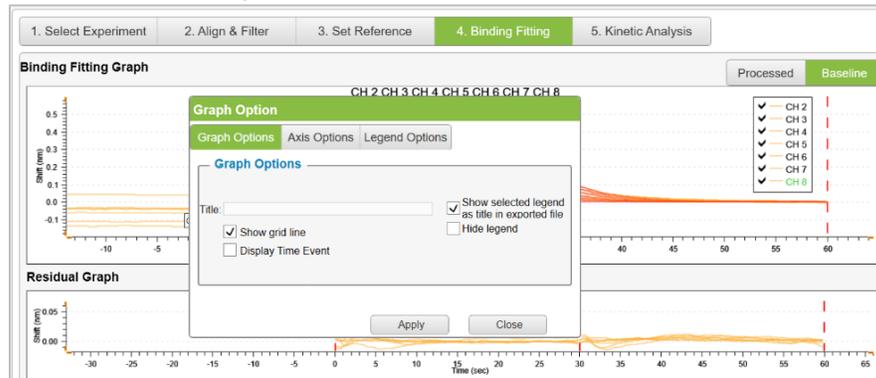
- 1.2.1 Improved assay panel management: Imported assay protocols will now remain accessible and will not be automatically removed by the software, ensuring greater flexibility and data retention.
- 1.2.2 Enhanced real-time experiment flexibility by allowing users to reliably skip or extend steps, improving overall performance and reliability.

1.3 Result & Analysis New Features

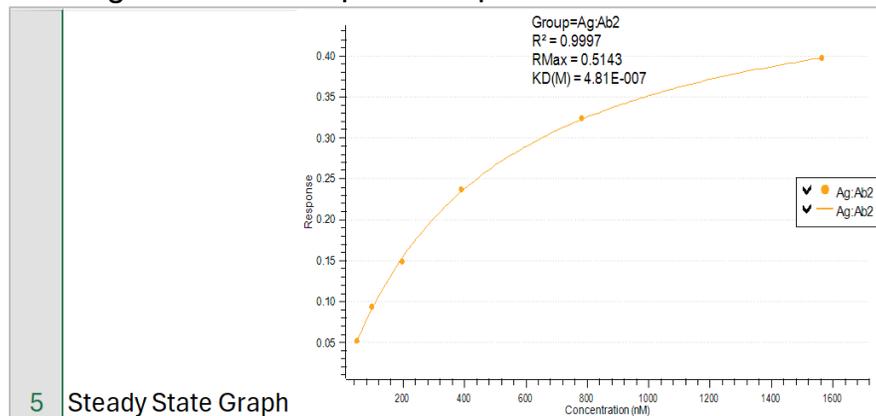
- 1.3.1 Added customization for sensorgram line thickness in the Settings page, allowing users to adjust the display to their preferences. Changes take effect after reopening the data file.



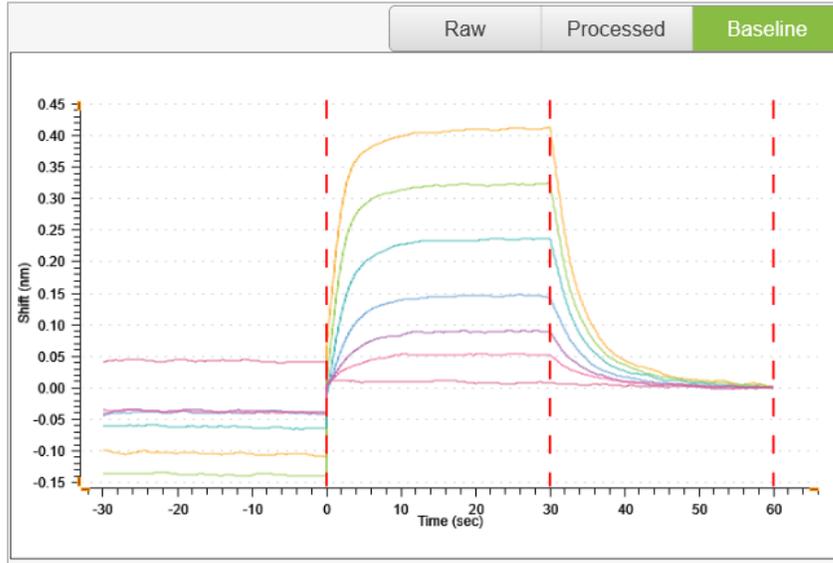
- 1.3.2 Introduced an option to show or hide time events on sensorgrams.



- 1.3.3 Sample information is now displayed in Steady State results, both on sensorgrams and in exported reports.

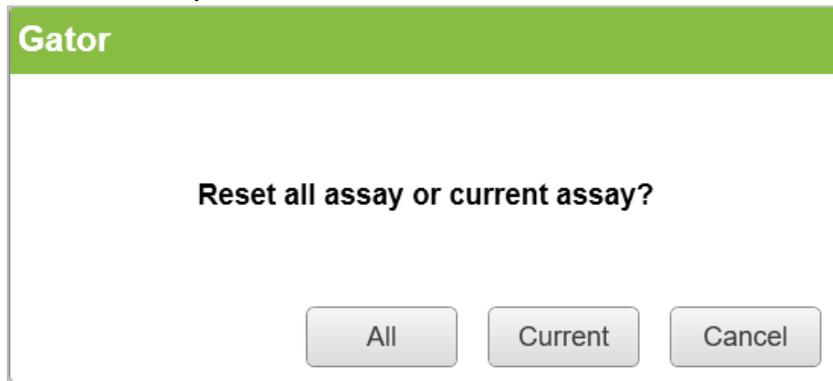


- 1.3.4 Added an option to display previous baseline sensorgrams for association and dissociation phases.



- 1.3.5 Added K_D error calculation.

- 1.3.6 Introduced an optional reset feature for assay reference settings/formulas, allowing users to reset either all assays or only the current assay.

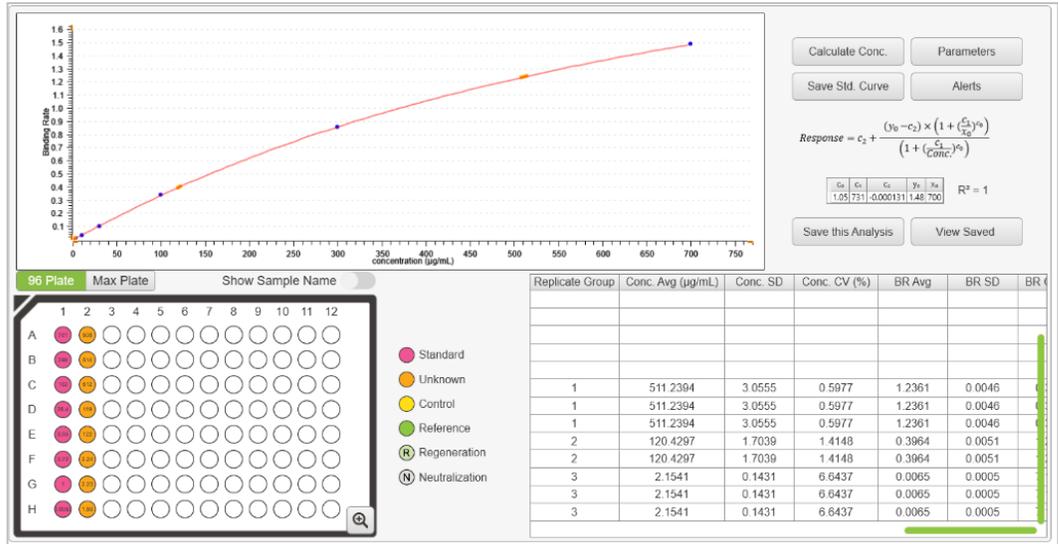


- 1.3.7 Added loading threshold information to the exported Excel.

	A	B	C
1			
2	Experiment Summary		
3	Experiment Summary	GB	
4	Assay Description	Gator Bio	
5	Assay User	GB	
6	Creation Time	05-03-2024 13:33:21	
7	Modification Time	08-28-2024 14:09:03	
8	Result Name	Gator Bio	
9	Analysis Name	Gator Bio	
10	History Analysis record Name		
11	Current Login User		
12	Product Version :	2.17.7.0116	
13	Loading Threshold :	On	
14	Signal Value :	0.4 nm	
15	Apply To :	All Channel	

1.3.8 Quantitation results now support replicate grouping assignments to calculate:

- Average calculated concentration
- Standard deviation of concentration
- CV of calculated concentration
- Average binding rate (BR)
- Standard deviation of BR
- CV of BR

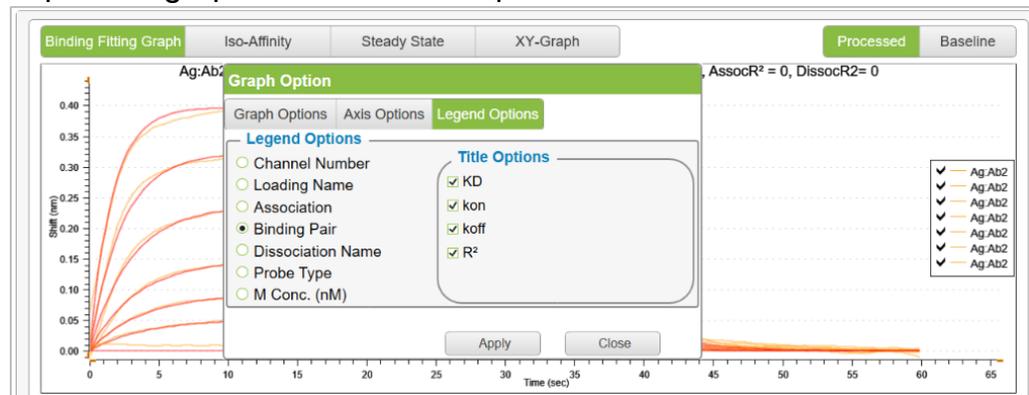


1.3.9 Added Sample Name and Concentration as legend options in quantitation results.

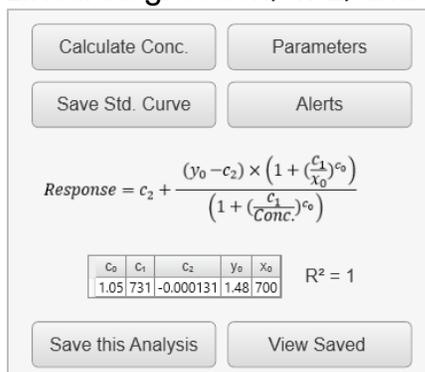
1.3.10 Introduced Concentration as an optional legend for kinetics analysis.

1.3.11 Added loading concentration details under the tab "5. Kinetic Analysis" result table and exported Excel report.

1.3.12 Expanded graph customization options to include title information.



- 1.3.13 Added Quantitation Standard Curve fitting formula details, including Linear Regression, 4PL, and 5PL with weighting options.



The screenshot displays a software interface for standard curve fitting. It includes several buttons: 'Calculate Conc.', 'Parameters', 'Save Std. Curve', and 'Alerts'. The central part of the interface shows the following formula:

$$\text{Response} = c_2 + \frac{(y_0 - c_2) \times \left(1 + \left(\frac{c_1}{x_0}\right)^{c_0}\right)}{\left(1 + \left(\frac{c_1}{\text{conc.}}\right)^{c_0}\right)}$$

Below the formula is a table with the following values:

c_0	c_1	c_2	y_0	x_0	$R^2 = 1$
1.05	731	-0.000131	1.48	700	

At the bottom of the interface are two buttons: 'Save this Analysis' and 'View Saved'.

For more details, please contact support@gatorbio.com or your local support team for further information.

- 1.3.14 Improved readability by displaying scientific notation for extremely low concentrations.
- 1.3.15 Removed the Canvas feature.
- 1.3.16 Enhanced kinetics curve fitting for fast on/off interactions and high-affinity binding.
- 1.3.17 Improved quantitation curve fitting for greater accuracy.

1.4 Result & Analysis Amendment

- 1.4.1 Restored the latest analysis session parameters for Advanced Quantitation under kinetics analysis.
- 1.4.2 Corrected an issue causing abnormal double reference subtraction.
- 1.4.3 The % recovery calculation is now omitted when no known concentration is provided for quantitation.

2.0 UPGRADE INSTRUCTIONS

2.1 (For US customers only) Please go to **www.gatorbio.com** and go to upper right. Click on 'Shop'. Then, login to the portal with valid username (email) and password.

2.2 Or go to Products tab, click "Software" and then click "DOWNLOAD PILOT/PRIME/PLUS SOFTWARE".



2.3 Click "Add to Cart" or "Add to Quote" and go to your cart on upper right to checkout.

2.4 Fulfill the order information and place the order. You will see the Order received and download the software.

2.5 For inquiries regarding eligibility for a complimentary software upgrade, please reach out to support@gatorbio.com.

2.6 Click the provided link to download the executable file as a ZIP package.

2.7 Right-click the downloaded ZIP file and select Extract to unzip it using the Windows system.

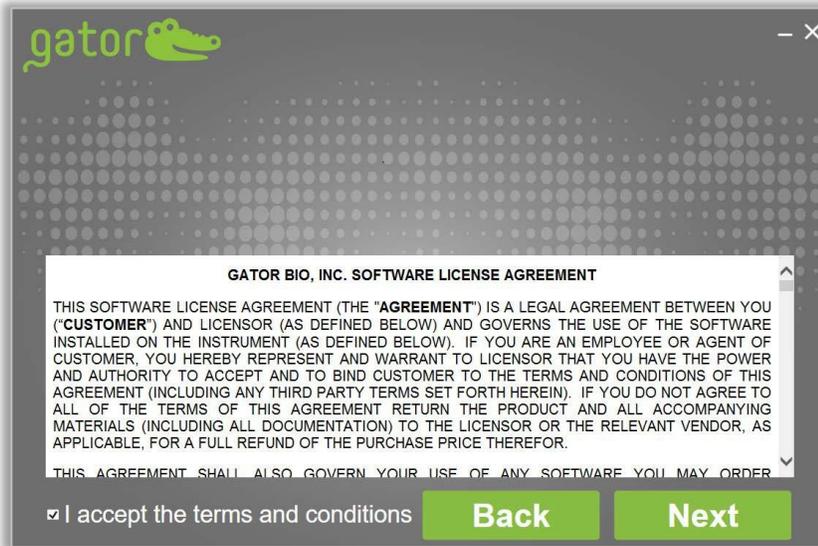
2.8 Please move the .exe file into the C Drive on the computer attached to the Gator instrument.

2.9 Ensure that GatorOne software is closed and then double-click the .exe to start the upgrade process

2.10 Select one of the five color themes for the software and then click Next.



2.11 Read through the Software License Agreement and check the box to agree. Click Next.

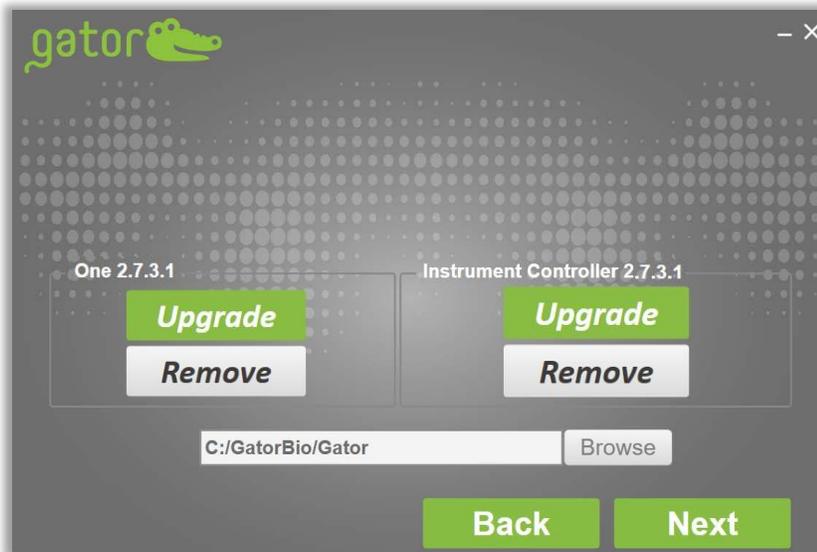


2.12 Choose the **right Gator Model** from the drop-down list on the bottom left to upgrade or install GatorOne Software. If the user is upgrading the current software, the Serial Number will be present in this box. (If user is attempting to install the software on a computer for the first time, you will need to obtain a serial number from our Service Department. Please email support@gatorbio.com for help in obtaining a Serial Number.) When Serial Number is filled in, click Next.

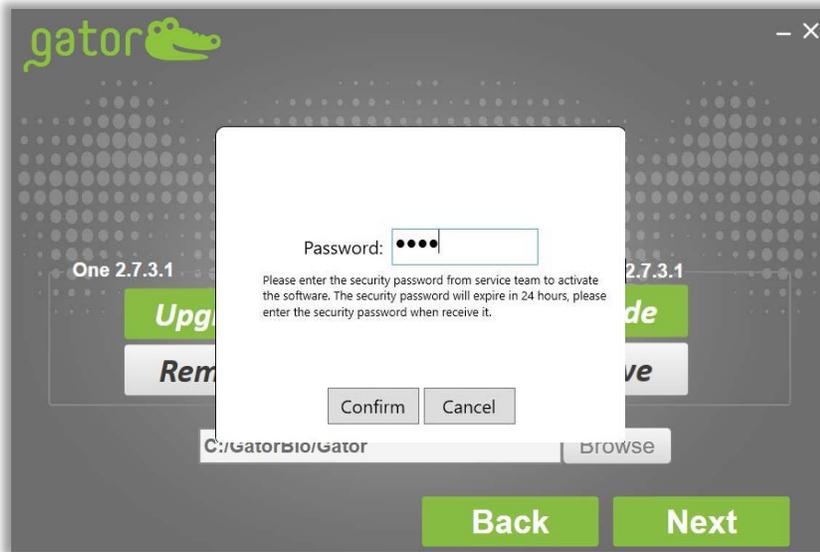
Please note: please DO NOT check the PART 11 if not CFR Part11 package



2.13 The default setting is to Upgrade both GatorOne and GatorController. Leave these defaults and click Next.



2.14 For additional software licenses, enter the 4-digit daily security password from support team at support@gatorbio.com to activate the software license. The security password will expire in 24 hours, please enter the security password when receive it. Enter it and click "Confirm" to activate the Software. Software upgrade may take several minutes



2.15 Upon completion, the screen will change. Click Finish to close the application

