

BioPhase Software

Release Notes

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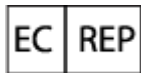
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This guide provides information about, and procedures for, installing the BioPhase software, obtaining a license for the BioPhase software, installing the Project Management software, and downloading methods to use with the BioPhase 8800 system.

Note: The numbers in parentheses are reference numbers for each issue or feature in the SCIEX internal tracking system.

New in Version 1.2

This section describes the enhancements and fixes in the BioPhase software. Changes to the BioPhase Analysis software, the Project Management software and the BioPhase Log File Extractor software are also described. To view the enhancements and fixes for a previous release, refer to the Release Notes that came with that version of the software.

New Features in Version 1.2

Front Panel

- For the Separate parameters, `Capillary cartridge is not installed` is shown when the cartridge is not engaged. (BRKSW-2214)
- The user can now delete the log errors from the front panel Log. (BRKSW-2183)

BioPhase Software

- Formatting issues including row alignment and missing borders from are now fixed. (BRKSW-1996)
- The BioPhase software logs all of the actions and changes made in the application. (BRKSW-2105)
- The user can configure and view the locations for projects and reagents from the Configuration workspace. Additionally, the functions related to reagent sets have moved from the Configuration workspace to the Acquisition workspace. (BRKSW-2133)
- The Method Summary tab now shows the values for each selected action. (BRKSW-2151)
- The Method Summary and Sequence General Information panes now shows three additional fields: **Modified On**, **Modified By**, and **Reason for Change**. (BRKSW-2279)

BioPhase Analysis Software

- The BioPhase Analysis software logs all of the activity in the software. (BRKSW-2105)
- The **Fast Glycan Analysis** option has been added to the Post Analysis tab in the Analysis Parameters result table pane. (BRKSW-2271)

Project Management Software

- If the network connection between the instrument and domain isolator is lost during the run, then the user can manually upload data from the Project Management software to the server. (BRKSW-2037)

Fixed Issues in 1.2

- (BioPhase Analysis software) If the graphs are tiled on the Overlay tab and the selected data files in the Files pane change, then the report for the Overlay tab does not show the correct graphs. (BRKSW-1909)
- (BioPhase Analysis software) For data files with LIF detection that were exported from the 32 Karat software in ASCII format, the label on the Y-axis of the electropherogram is incorrect. The label is "AU" instead of "RFU". (BRKSW-1954)
- (BioPhase Analysis software) Any changes made to the Glycan Analysis parameters were not saved when the **OK** button was clicked. (BRKSW-2134)
- (BioPhase software) In the Method Settings pane, **Capillary Type** list was cut off. (BRKSW-2150)
- (BioPhase Analysis software) The user was not able to print the report for the selected and all data on a single view with peak results. (BRKSW-2161)
- (BioPhase software) In the Sequence Editor, the user was not able to open the Sequence Validation tab and adjust the width in the **Sample Plate Setup** manually. (BRKSW-2164)
- (BioPhase software) When creating or editing a sequence or method, the path on the **Path Configuration** tab did not change without saving the method or sequence. (BRKSW-2176)
- (Front panel) In the front panel Configuration tab, the touch screen keyboard was not shown when the user touched the textbox. (BRKSW-2178)
- (Front panel) If the user stops the sequence during a run and then clicks **Yes** to run the error recovery method, a message that the run did not complete is shown, even though the run was stopped by the user. (BRKSW-2207)
- (Front panel) If the network connection was lost during data acquisition, then the data files might not be copied to the server or the local computer. (BRKSW-2208)
- (Front panel) In the front panel Separate tab, Capillary cartridge is not installed message was shown even when the cartridge was engaged. (BRKSW-2214)

Introduction

- (Front panel) For a sequence that did not have an error recovery method assigned, if the user stopped the sequence during a run, the reagent trays might not end up in the home position. If the trays were not in the home position, then the cartridge might be damaged and need to be replaced. (BRKSW-2218)
- (Front Panel) Front panel **Events** and **Systems** log showed the newest events on the top and older events in the bottom. (BRKSW-2231)
- (Front panel) The log files from the front panel were deleted when the system was initialized. (BRKSW-2235)
- (BioPhase software) If a reagent name was very long, then the **Color** column in the reagent table is narrow and hard to read. (BRKSW-2241)
- (BioPhase software) In the sequence editor, the message shown during the opening of a sequence that was corrupted stated that the file was not accessible. If the user clicks **New** after dismissing the error message, then the software might close. (BRKSW-2246)
- (BioPhase Analysis software and Front panel) The user was able to edit an existing method and sequence without adding a **Reason for Change**. However, the user was unable to run a sequence from the front panel. (BRKSW-2248)
- (Front panel) If the system was idle longer than the **Timeout Duration**, then the lock screen did not display the name of the logged in user. Therefore, it was impossible to know who can unlock the system. (BRKSW-2249)
- (Front panel) If the front panel was locked during the LIF calibration, then the user was not able to save or view any new calibration factors. (BRKSW-2250)
- (Front panel) The user was not able to view the changes in a method, if a method was edited and saved with the same name. (BRKSW-2255)
- (BioPhase Analysis software) If the value in the **Width** field in the Report Setup dialog was out of range and the **Print Preview** was selected, then the print preview was blank. The Results table was also blank after the Print Preview dialog was closed. (BRKSW-2256)
- (BioPhase Analysis software) Report Setup instructions for the user were missing. (BRKSW-2257)
- (Project Management software) Duplicate copies of the same data files were saved during the acquisition. (BRKSW-2265)
- (BioPhase software) A method was not selected in a sequence if the **Error Recovery Method** checkbox was selected for a method with assigned samples. (BRKSW-2269)
- (BioPhase software) The incorrect help topic was shown for the **Method Editor**. (BRKSW-2275)
- (Front panel) The **Done** button in the Wavelength Settings tab was enabled before updating the **Filter Wavelength**. (BRKSW-2277)

- (BioPhase Analysis software) The **Filter (Area)** and **Filter (Area%)** functions in the Post Analysis tab did not work. (BRKSW-2281)
- (Front panel) The **Idle Timeout** function in the Configuration tab did not work after the **Timeout Duration** was saved. (BRKSW-2306)
- (BioPhase software) The reagent and sample plate did not display any reagent on the instrument screen, when more than 12 columns of sample were added in the plate and sequence. (BRKSW-2318)
- (BioPhase software and Front panel) In the Method Settings tab, if the value for the **PMT Gain** was set as 5 , then the system showed an error on the front panel while running a sequence. (BRKSW-2351)
- (BioPhase software) Any changes made to an existing sequence or method were not saved when **Save As** was clicked. (BRKSW-2356)

BioPhase Firmware Version 1.2

BioPhase firmware version 1.2 was released in May 2022.

Changes in this version include:

- Added internal functions to improve how the pressure is attained. (BRKSW-1935)
- Added a command to support a new alignment mechanism for the sample and reagent trays. (BRKSW-2085)
- Increased the sample cooler motor holding current for the tray holder. (BRKSW-2329)
- Improved the accuracy of the capillary position relative to the 280 nm UV filter. (BRKSW-2367)
- Increased the voltage range for the photomultiplier for LIF detection. (BRKSW-2374)

Operating System Requirements

This version of the software is compatible with Microsoft Windows 10, 64-bit. For computer requirements, refer to the section: [Computer Requirements](#).

Computer Requirements

The computer must meet the minimum requirements for Microsoft Windows 10, 64-bit software.

Local Computer Configuration Requirements

In a local computer configuration, customers can purchase a computer from SCIEX or supply their own. If a non-SCIEX computer will be used, then the customer is responsible for all aspects of configuration and installation of the BioPhase software. The non-SCIEX computer must meet or exceed the specifications for the validated computer. Refer to the section: [Validated Computer Configuration](#).

Validated Computer Configuration

Table 2-1 Validated Computer Configuration

| Item | Details |
|----------------------------|---|
| Operating system | Microsoft Windows 10 |
| Additional software | OS Windows Media .NET Framework version 4.7.2 or later |
| CPU | Heatsink 5820 Tower |
| Random access memory (RAM) | 32 GB 2 × 16 GB DDR4 3200 MHz RDIMM ECC memory |
| Solid state drive | M.2 1 TB PCIe NVMe Class 40 |
| Ethernet adapters | Ethernet port for network connectivity |

Network Configuration Requirements

To connect the BioPhase 8800 system to the customer network, a computer (a domain isolator) that is configured to isolate the system from the network domain is required. Software that is required for use with the domain isolator is available from SCIEX.

Before the FSE arrives at the customer site for BioPhase 8800 system installation, customers are responsible for configuring the domain isolator to connect to their network. To add any computer to the network domain, assistance from the customer IT department is recommended.

A single domain isolator can use a network switch or be configured as a virtual LAN (VLAN) on the customer network to connect to multiple BioPhase 8800 systems.

Domain Isolator Requirements

Table 2-2 Domain Isolator Requirements

| Item | Details |
|------------------|---------------------------------------|
| Operating system | Microsoft Windows 10 |
| Other software | .NET Framework version 4.7.2 or later |
| Adapters | 2 Network interface cards |

Download Required Software and Files

Go to sciex.com/software-support/software-downloads and download the following files from the **More Software Downloads** section:

- BioPhase Software 1.2
- BioPhase Project Management Software 1.2
- BioPhase Project Files 1.0

Tip! To prevent potential installation issues, save the files to a location other than the computer desktop and disconnect any external USB storage devices before starting an installation.

Create Project Folders

Use this procedure to create project folders that contain methods, sequences, reagents, and analysis parameters to be used with the BioPhase software.

1. In File Explorer, right-click the `BioPhase.zip` file and then click **Extract All** to extract the installation package.
2. In the Extract Compressed (Zipped) Folders dialog, click **Browse**, and then select the folder `C:\BioPhase`.
3. Click **Select Folder**, and then click **Extract**.
The extracted files are copied to the selected location. The extracted files include Project and Reagent folders that are identified and used during installation.

Install the BioPhase Software

The BioPhase software lets the user set up methods and sequences for data acquisition and then analyze the collected data.

1. Log on to the computer as a Windows user with Administrator privileges.
2. Make sure that all applications are closed.
3. In File Explorer, double-click the `SCIEX_BioPhase_Software_1.2.zip` file and then click **Extract All** to extract the installation package.
4. Double-click the installer msi file.

5. Select the **I accept the terms in the Licence Agreement** check box, and then click **Install**.
6. Follow the on-screen instructions.

When the location of the Project and Reagents folders is requested by the Installer, use the location of the folders that were created when the project folders were set up. Refer to the section: [Create Project Folders](#).

Note: If the Project and Reagents folders are located on a shared drive, then use the full path to the folder. If the folders are on a mapped drive and the mapped drive name is used, then there might be problems accessing the projects or reagents.

7. Follow the on-screen instructions.

Note: To prevent installation issues, install the software on a local drive. Do not install the software on a network or removable drive. If the software is not installed on a local drive, then the customer is responsible for any security.

Note: To prevent installation issues, make sure that the path to the installation folder is not too long. If the path is longer than 118 characters, then installation will not continue.

8. After the software is installed, restart the computer.

Note: A restart is not mandatory. However, SCIEX recommends that the computer be restarted.

9. Download and activate the license. Refer to the section: [Electronic Licensing](#).

Electronic Licensing

To use the BioPhase software, a node-locked license is required. The license file name is License.lic. The license file is installed in the C:\Program Files (x86)\AB SCIEX\BioPhase folder on the computer where the BioPhase software is installed. To activate the node-locked license, refer to the section: [Activate a Node-Locked License for BioPhase Software](#).

Note: For the node-locked license, do not change the computer date and time after the license is activated. If the computer date and time must be changed, then do so before activating the license. Otherwise, the software might not operate.

Note: Do not change a node-locked license file. Changing the license file invalidates the license and it becomes unrecoverable.

Note: To purchase additional licenses, contact SCIEX Support at sciex.com/contact-us.

Activate a Node-Locked License for BioPhase Software

A license key is required.

1. Double-click the BioPhase icon on the desktop.
The BioPhase Activation dialog opens.

Figure 3-1 License Message

BioPhase Activation

**For server-based license activation,
close this window and contact the IT department.**

**To start a node-locked license activation,
obtain and install a license file by doing the following:**

A license file is required to activate, close this window and contact the IT department.
Note: Optionally, a demo license key can be used. It unlocks the software for a limited period.

1. Enter the license key from the license certificate or packaging here:

2. Record the following computer ID:

Copy ID to Clipboard

3. Click the following link and follow the instructions: <https://sciex.com/request-support>
After the required information is submitted, SCIEX sends the license file by email.

4. Save the license file from the email message to the Desktop.

5. Click the following button below to install the license file.

Install License File...

For assistance, click [FAQs](#)

Close

2. In step 1 of the BioPhase Activation dialog, type the license key.
The license key might be distributed on a printed activation certificate or in an e-mail from SCIEX Now. If the license key is missing, contact a SCIEX sales representative.

Note: The license key starts with AID and is followed by 32 characters, consisting of 8 segments of 4-digit codes separated by hyphens.

Entering the license key enables the **Copy ID to Clipboard** and **Install a License File** buttons and the link in step 3 of the BioPhase Activation dialog.

3. In the BioPhase Activation dialog, click the link in step 3.
The SCIEX Login web page opens.
4. Click **Log In** to log in to an existing SCIEX account or click **Create an Account**.

When account creation or log on is complete, the SCIEX software activation web page opens. The first name, last name, and e-mail address of the user are shown in the first three fields in the form.

If a license is being activated for BioPhase on this computer, then the **License Key** field is also populated with the correct information.
5. (Optional) If a license is being activated for the BioPhase software on a different computer, then type the computer ID, which is the MAC address of the network port used to connect the computer to the network, and the license key in the fields.
6. (Optional) If the **Computer ID** field is empty, in the BioPhase Activation dialog, click **Copy ID to Clipboard** to copy the computer ID, and then, in the SCIEX software activation web page, paste the ID in the **Computer ID** field.
7. (Optional) In the **Nickname** field, type a name.
8. In the **Select Your Instrument** field, select and type the required information.
9. In the **Serial Number** field, type the serial number of the BioPhase 8800 system.
The serial number is on the back panel.
10. Click **Submit**.
11. To download and save the license file, do one of the following:
 - In the message dialog that is shown, click **Download Now** to download the license file, and then save the file to a local file path.
 - In the e-mail that is sent, download the license file, and then save the file to a local file path.
12. In the BioPhase Activation dialog, click **Install License File**, and then select the location where the license file is saved.
If the license file is valid, then the BioPhase Activation dialog closes and the BioPhase software opens to show the Home page.

Install the Project Management and BioPhase Log File Extractor Software

In a local computer configuration, the software is installed on the local computer.

Installation Instructions

In a network configuration, the software is installed on the domain isolator.

CAUTION: Potential Data Loss. Make sure that the domain isolator is set to never go to sleep. If the domain isolator goes to sleep, then data files might not be saved during acquisition. SCIEX computer images already have these settings set correctly.

Note: Make sure that the software version of the Project Management software and the BioPhase software is the same.

1. Log on to the local computer or domain isolator as a Windows user with Administrator privileges.
 2. Make sure that all applications are closed.
 3. If a previous version of the software is already installed on the system, back up all of the project files and then uninstall the software.
 4. In File Explorer, right-click the
SCIEX_BioPhase_Project_Management_Software_1.2.zip file and then click **Extract All** to extract the installation package.
 5. Double-click the Installer `msi` file.
 6. Follow the on-screen instructions.
-

Note: To prevent installation issues, install the software on a local drive. Do not install the software on a network or removable drive. If the software is not installed on a local drive, then the customer is responsible for any security.

Note: To prevent installation issues, make sure that the path to the installation folder is not too long. If the path is longer than 118 characters, then installation will not continue.

7. After the software is installed, restart the computer.

For instructions for the Project Management software or the BioPhase Log File Extractor software, refer to the document: *Operator Guide*.

Known Issues in the Software

4

Note: The numbers in parentheses are reference numbers for each issue or feature in the SCIEX internal tracking system.

| Issue | Notes |
|--|--|
| (BioPhase Analysis software) Glycan Analysis parameters shows the same peak colors as regular processed data. The peak color for Glycan Analysis parameters should be changed. (BRKSW-1440) | N/A |
| (BioPhase Analysis software) In the graph in the Data pane, when the user changes the X-axis from MT to Cal MT or vice versa, the scaling on the Y-axis changes. This is more obvious when annotations are shown and might result in the annotations being truncated. (BRKSW-1494) | To prevent this issue, use custom scaling, available from the Custom Scale option on the Integration tab. Set the Y-axis maximum to Manual and then type a value large enough to show all of the annotations. |
| (BioPhase Analysis software) Deleting a peak tail after splitting a peak deletes the wrong area. (BRKSW-1571) | N/A |
| (BioPhase software) If the software is configured to save methods and sequences to a server, then methods and sequences cannot be created and saved if the computer with the BioPhase software is not connected to the server. (BRKSW-1790) | The computer with the BioPhase software must be connected to the server. During installation, the user specifies where the sequences will be saved. If the computer is directly connected to the BioPhase 8800 system, then there is no issue. |
| (BioPhase Analysis software) The number of decimal places shown in the system suitability report does not match the number configured in the Report Setup dialog. Instead, the report uses the number configured from the Information Setup dialog. (BRKSW-1835) | To configure the number of decimal places for the system suitability report, use the Information Setup dialog that is available in the Results Table for the Overlay tab. |
| (BioPhase Analysis software) When the user applies or revokes a signature, the comment field in the Signature dialog accepts more characters than can be saved. (BRKSW-1849) | To prevent the loss of information, limit comments to 64 characters or less. |

Known Issues in the Software

| Issue | Notes |
|---|--|
| (BioPhase Analysis software) If the graph image is saved or copied, then the annotations are sometimes truncated. (BRKSW-1905) | To prevent this issue, use custom scaling, available from the Custom Scale option on the Integration tab. |
| (BioPhase Analysis software) If there are too many lines in the report header, then the Results Table is truncated when it is in landscape format. (BRKSW-1908) | Click File > Print Preview to view the report. If the Results Table is truncated, then click File > Report Setup and change the report layout as required. |
| (BioPhase Analysis software) If a page range is set in the Print dialog, then the entire report is printed. (BRKSW-1923) | To print a range of pages, save the whole report to a PDF and then use a PDF reader to print the pages. |
| (Project Management software) A message stating that the project will be deleted from the server is shown when the user deletes the project in the Project Management software. (BRKSW-2012) | The message is incorrect. The project files are not deleted, only the connection to the server is deleted. |
| (Front panel) If the domain isolator computer is turned off or otherwise not available on the network, users cannot unlock the front panel or log onto the system. (BRKSW-2171) | If the system is configured to use the domain isolator, then the network must be available to use the system. When the network is available, a user can log on. |
| (Project Management software) The instrument serial number is not shown in the instrument list. (BRKSW-2175) | N/A |
| (BioPhase Analysis software) If data file names include a comma when a report is saved from the Overlay tab, then the comma might cause a problem when the file is opened in another program. If the file is opened in Microsoft Excel, then the comma is incorrectly interpreted as a delimiter, and the file name is shown in two columns. The other data is shifted by one column relative to the column headers. (BRKSW-2179) | In the sequence, do not use commas in the Data File field. |
| (BioPhase Analysis software) In the System Suitability Settings tab, values for the RMS Noise , Peak-to-Peak Noise , and Drift cannot be deleted. (BRKSW-2254) | Double-click in the cell to edit or delete the RMS Noise , Peak-to-Peak Noise , and Drift values, or close the System Suitability Settings tab and open it again. |

| Issue | Notes |
|---|--|
| (Front panel) If a sequence fails during a separate action, then the exclamation mark (!) is not added to the action where the failure occurred. (BRKSW-2268) | The last action that is shaded in grey is where the failure occurred, even though the status shows a green checkmark. |
| (Front panel) If an error occurs during the run sequence, then the front panel continues to show the incorrect error message, even after the error recovery process has been completed. (BRKSW-2322) | To remove the error, go to the front panel Log and touch Initialize System or restart the system. |
| (BioPhase Analysis software) If more than eight files are selected, only eight of them can be tiled in the Overlay tab. The BioPhase Analysis software does not show a message indicating that the other traces are not shown. (BRKSW-2327) | To prevent this issue, do not select more than eight traces. |
| (BioPhase Analysis software) The File > Print command only prints one file at a time. (BRKSW-2330) | To print a report for more than one file, right-click the icon in the toolbar and select Print (checked) or Print (all) . Refer to the document: <i>BioPhase Software Help System</i> . |
| (BioPhase software) In the Method Settings tab, the reagent project list does not update when a new reagent project is created. (BRKSW-2335) | To view the updated reagent project list, restart the BioPhase software. |
| (BioPhase Analysis software) For LIF data, the text showing the units on the Y-axis is truncated when the traces in the Overlay tab are tiled. (BRKSW-2341) | N/A |
| (BioPhase Analysis software) In the graph in the Data pane, The Autoscale Y and Autoscale XY commands do not work if the X-axis is switched to Cal MT . (BRKSW-2355) | To prevent this issue, use custom scaling, available from the Custom Scale option on the Integration tab. Set the X-axis maximum to Manual and then type a value large enough to show all of the annotations. |

Contact Us

Customer Training

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- In Europe: Europe.CustomerTraining@sciex.com
- Outside the EU and North America, visit sciex.com/education for contact information.

Online Learning Center

- [SCIEX Now Learning Hub](#)

Purchase Supplies and Reagents

Reorder SCIEX supplies and reagents online at store.sciex.com. To set up an order, use the account number, found on the quote, order confirmation, or shipping documents. Currently, customers in the United States, United Kingdom, and Germany have access to the online store, but access will be extended to other countries in the future. For customers in other countries, contact a local SCIEX representative.

SCIEX Support

SCIEX and its representatives maintain a staff of fully-trained service and technical specialists located throughout the world. They can answer questions about the system or any technical issues that might arise. For more information, visit the SCIEX website at sciex.com or contact us in one of the following ways:

- sciex.com/contact-us
- sciex.com/request-support

CyberSecurity

For the latest guidance on cybersecurity for SCIEX products, visit sciex.com/productsecurity.

Documentation

This version of the document supersedes all previous versions of this document.

To view this document electronically, Adobe Acrobat Reader is required. To download the latest version, go to <https://get.adobe.com/reader>.

To find software product documentation, refer to the release notes or software installation guide that comes with the software.

To find hardware product documentation, refer to the documentation DVD for the system or component.

The latest versions of the documentation are available on the SCIEX website, at sciex.com/customer-documents.

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