

BAX® System Q7 Version 5.2.0.32948

Features and Instructions

The Hygiena® BAX® System Q7 software release v5.2 includes several new target options, algorithm enhancements, and improvements to error logging.

We strongly recommend that you install the latest version as soon as possible for optimal performance.

Please read all instructions thoroughly and confirm all required prerequisites before installing the software update.

If you currently have a Windows 7 computer system, please contact techsupport@hygiena.com or your local Hygiena representative for Windows 11 upgrade support.

This release is ONLY applicable to Windows 10 and Windows 11 Operating Systems.

Software Assay Updates for Release v5.2.0.32948

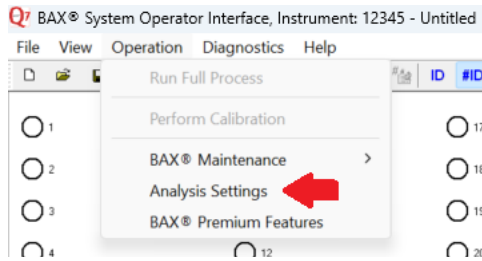
- There are no changes to the analysis for BAX certified assays (vs. versions 4.21, 4.22, 5.0, and 5.1)
- The addition of **BAX® Real Time *E. coli* O157:H7 Exact + S** (Product No. KIT2043) and **BAX® Real-Time Highly Pathogenic *Salmonella*** (Product No. KIT2048) assays in the target dropdown. Refer to the assay instructions for use (IFU) for more details.
- foodproof® and microproof® assays with improved **experimental** analysis files for assistance with results interpretation:

| Product Name | Product Number |
|---|----------------|
| foodproof® <i>Aspergillus</i> Detection LyoKit® (Real-time only) | KIT230145 |
| foodproof® <i>Enterobacteriaceae</i> plus <i>Salmonella</i> Detection LyoKit® | KIT230137 |
| microproof® <i>Legionella</i> Quantification LyoKit® | KIT230119 |
| foodproof® <i>Listeria</i> Genus Detection LyoKit® | KIT230088 |
| foodproof® <i>Listeria monocytogenes</i> Detection LyoKit® | KIT230092 |
| foodproof® <i>Listeria</i> plus <i>L. monocytogenes</i> Detection LyoKit® | KIT230129 |
| foodproof® <i>Salmonella</i> Detection LyoKit® | KIT230099 |
| foodproof® <i>Salmonella</i> Enteritidis & Typhimurium Detection LyoKit® | KIT230106 |
| foodproof® <i>Salmonella</i> Genus plus Enteritidis & Typhimurium Detection LyoKit® | KIT230134 |
| foodproof® <i>Staphylococcus</i> Detection LyoKit® | KIT230103 |
| foodproof® STEC Screening LyoKit® | KIT230077 |
| foodproof® <i>Vibrio</i> Detection LyoKit® (Real-time only) | KIT230117 |
| foodproof® Yeast and Mold Quantification LyoKit® | KIT230112 |

Important Note: All foodproof and microproof assays with *experimental* kit analysis files are designed to assist with result interpretation but require **visual verification** of the graphs. Refer to Table 1 below for more detailed definitions.

Additional information for viewing data from *experimental* analysis files:

- Analysis is available for all assays (i.e., BAX, foodproof, microproof). By default, all assays with experimental analysis options will have the analysis file set to “None”. The user can navigate to Operation → Analysis Settings to set the analysis file (Algorithm) to “Experimental” for targets that do not have verified analysis options. This setting helps improve assistance with results interpretation.



- Refer to the [video tutorial](#) for instructions on how to set up experimental analysis in the BAX System Q7 software

Table 1. Analysis File Settings Available in the BAX System Q7 Software

| Analysis File Setting | What You Get | Visual Review Required | Who Interprets the Data |
|-----------------------|---|------------------------|-------------------------|
| Certified | Fully validated automated result interpretation with customized logic | No | Software |
| Experimental | Software-assisted classification | Yes | User |
| None | Raw amplification data | Yes | User |

Software Feature Updates for Release v5.2.0.32948

- Users can register the BAX Q7 to the SureTrend® application available on the cloud:
 - Ability to review data online both graphically and by result status with SureTrend software.
 - Ability to track instrument logs, instrument status, calibration status, and calibration backup.
 - Ability to store and archive data for up to 10 years (for active accounts).
 - To use this feature, you must register a SureTrend account <https://suretrend.hygiene.com/Register> (Refer to the [video tutorial](#) for instructions on how to register Q7 to SureTrend.)



For BAX Q7 Users with SureTrend Premium Accounts:

- Improvement for Detection of empty wells, wrong target selection, and non-empty wells --- the software identifies common human errors, saving time and avoiding re-runs.

Additional integration with SureTrend:

- Only Full process runs files are allowed to be auto-synced to SureTrend; reanalysis will not sync results.

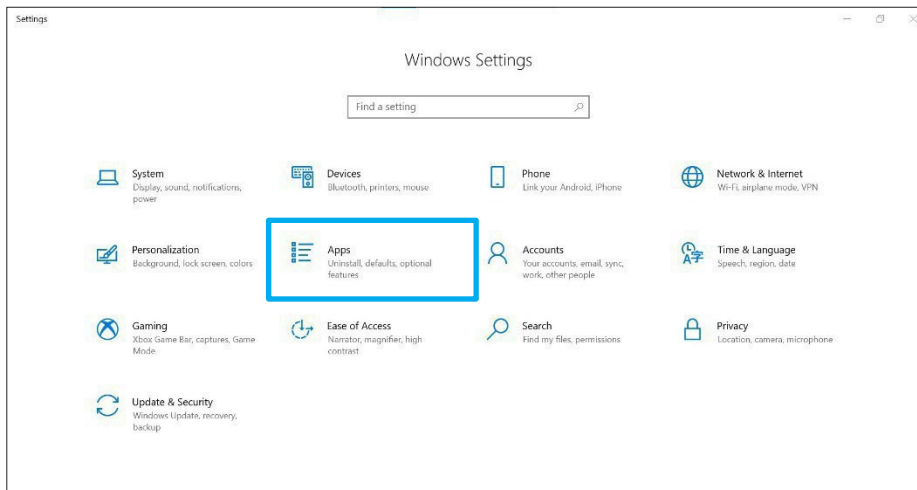
Software Upgrade Instructions:

1. Required Prerequisites:

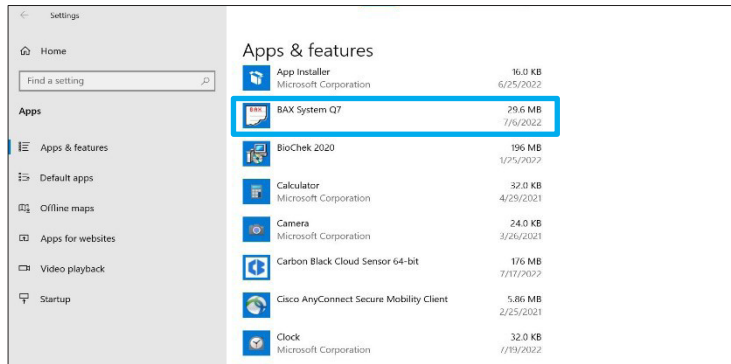
- **Regional Settings are in English.**
- **The Core Isolation setting should be turned off in Windows security settings.**
- **Read/Write Permissions for the following file locations for all users.**
 - C:\Program Files\MATLAB
 - C:\Program Files (x86)\BAX
 - C:\ProgramData\BAX Q7 System
 - All Power and Sleep Settings are set to Never.
 - Disable this setting in the 'Local Group Policy' Editor:
Local Computer Policy > Computer Configuration > Administrative Templates > Windows Components > Windows Update. Then select Enable > Apply the 'No auto-restart with logged on users for scheduled automatic updates installations'. Click OK.
- **Obtain the HEX Calibration Kit (Product No.: KIT230340) from Hygiena if you plan to run foodproof or microproof assays that utilize the HEX dye (see kit instructions).**
 - This additional calibration plate is a stand-alone product and is not included with other calibration kits.
 - Please visit the [Contact Us](#) page for ordering and technical support.

2. Calibration, Storage and Removal of Current Software:

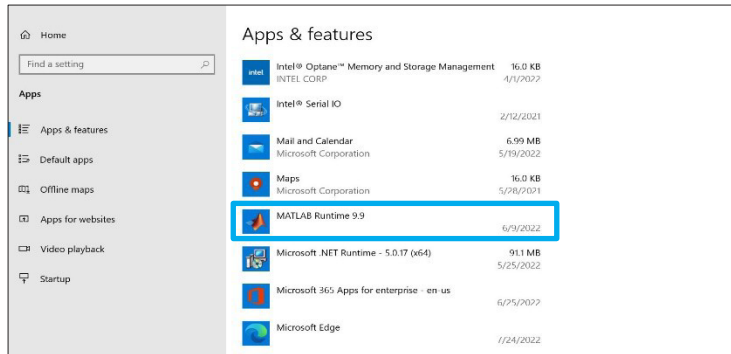
- **Back up the system's calibration file.**
 - Select Operations > BAX Maintenance > Export Calibration from the menu bar.
 - Navigate to a new folder in which to store the backup file and click 'Save'.
 - Name the calibration file (example: Q7Cal_date.bqc).
- **Uninstall the previous version of the BAX System Q7 application.**
 - Navigate to Windows Settings and select Apps.



- Click on BAX System Q7, select Uninstall, and agree (click 'Yes') on the next window to initiate removal.



- If updating from 4.21, 4.22, 5.0 or 5.1, the removal of MATLAB is not required. If updating from any other previous versions of BAX System Q7 software, click on the MATLAB application, select Uninstall, and click 'Agree' on the next window (this may take several minutes).



Restart the Computer BEFORE Continuing to Step 3.

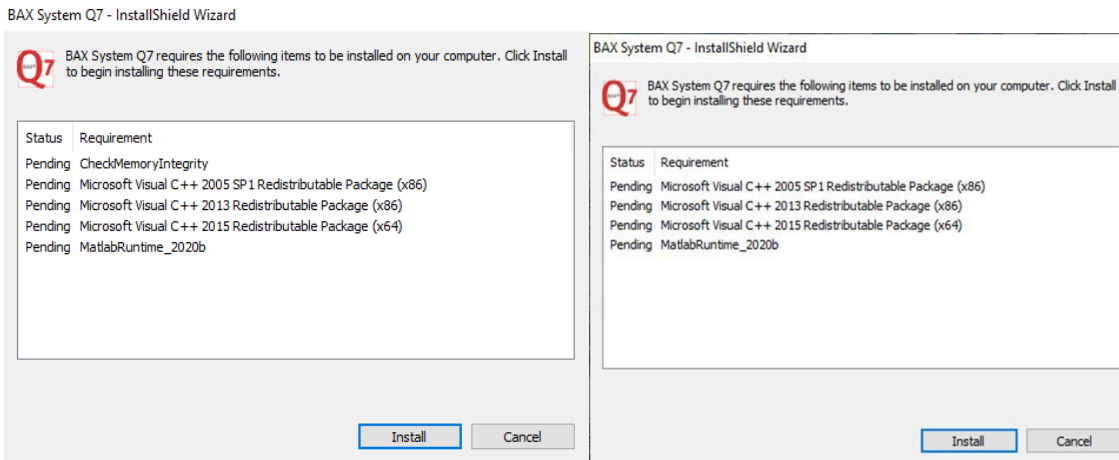
3. Download v5.2.0.32948 software by clicking this [link](#) or the button from the BAX Q7 Page on www.hygiene.com.

- Transfer the download to a memory/USB stick if the computer doesn't have internet access.**
 - Click on the Q7 5.2.0.32948 icon and the program will automatically start executing the installation.
- A 'Windows protected' screen may pop up. Select More Info, then select Run anyway.**
 - On the next pop-up, select 'Yes' to allow installation to begin.



4. Some Prerequisites May Need to Be Installed Before Installing the BAX Application.

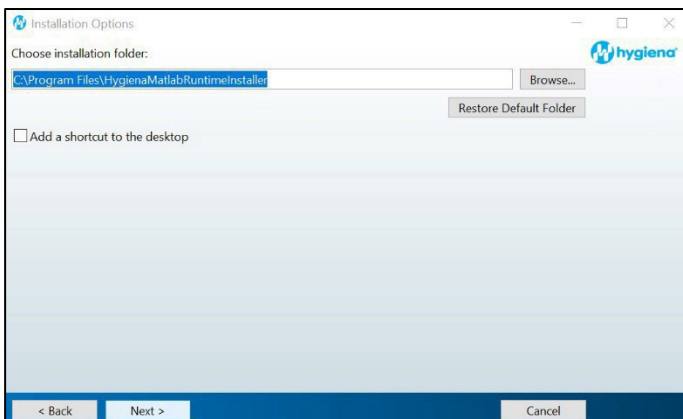
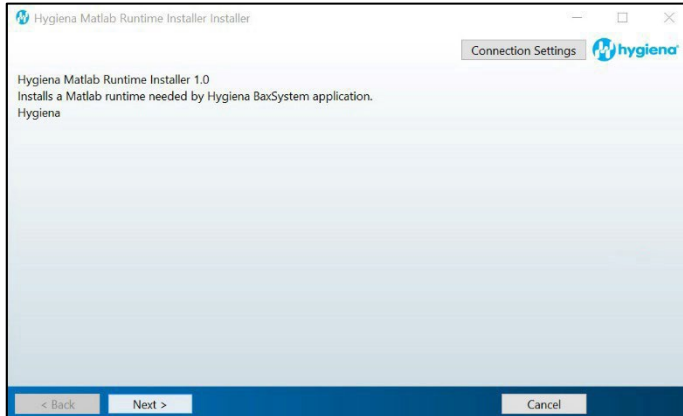
If you see these, you may need to restart the system multiple times to allow the prerequisites to be installed before MATLAB Runtime can install.

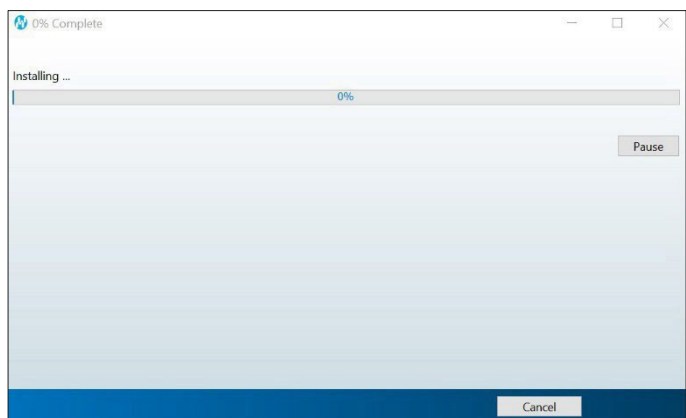
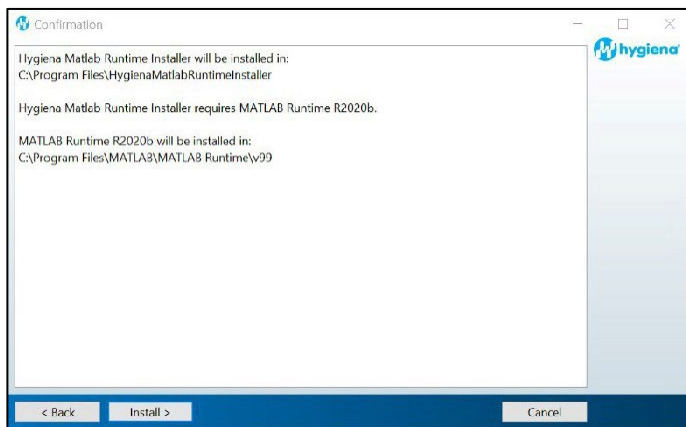
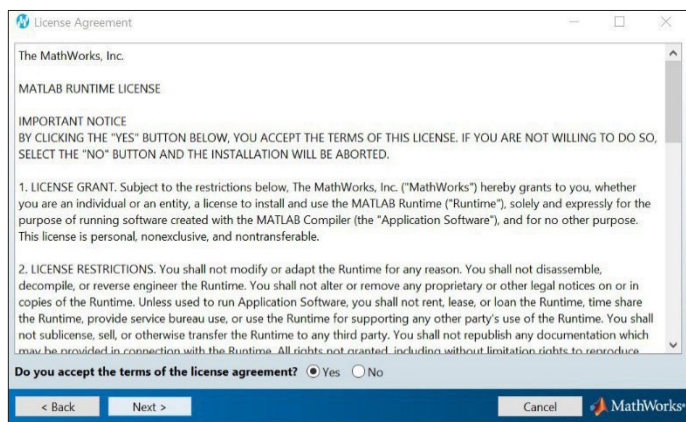
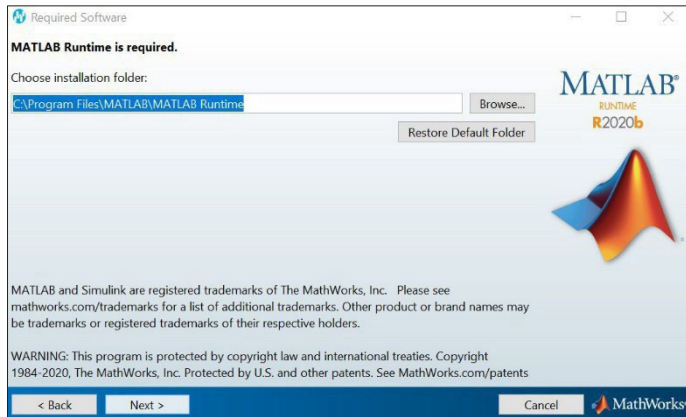


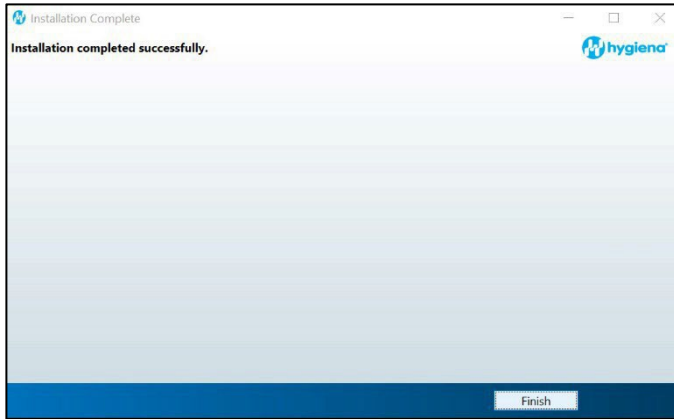
Checking memory integrity and correcting regional settings (not shown) are the first two prerequisites that must be addressed for the application to install successfully.

5. MATLAB Updates Will be Installed (After Prerequisites). Follow the Prompts Below and Select the Default Responses:

Note: a prompt to install MATLAB will pop up if it is not already installed (e.g., on a new installation).

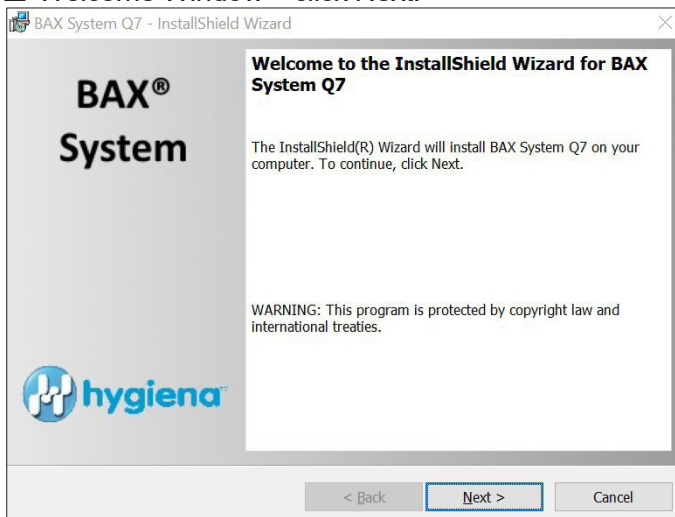






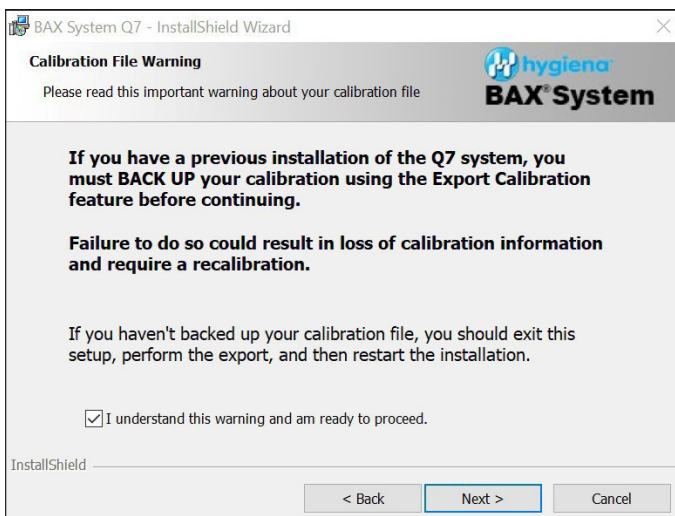
6. Following MATLAB Installation, the BAX System Q7 Application Installation Will Be Initiated. Read the Prompts Carefully. Choose the default responses.

Welcome Window – click Next.



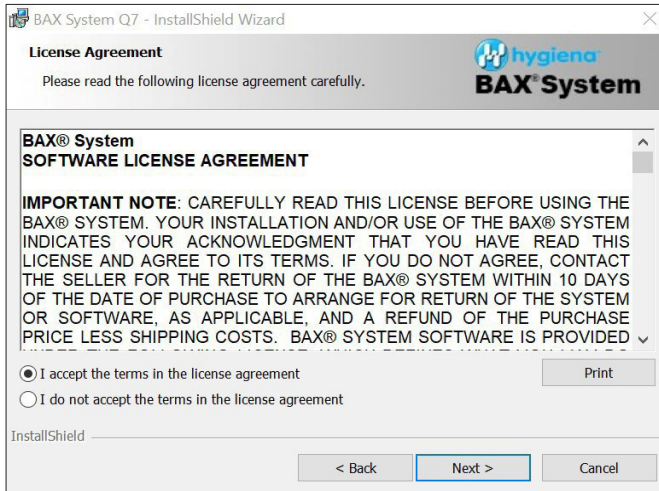
■ Calibration File Warning

Check the box and click Next.



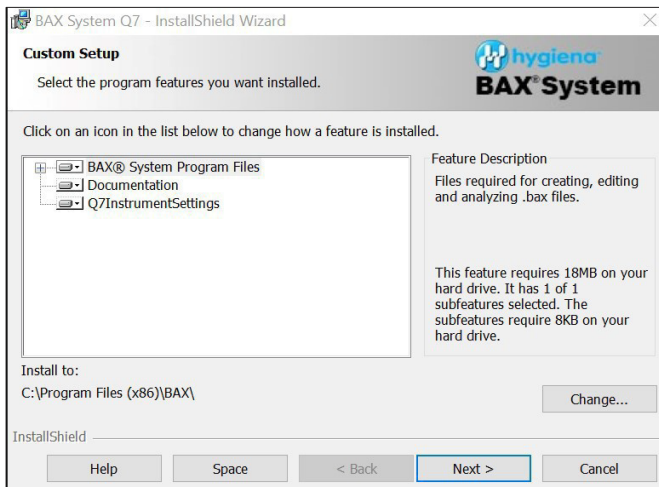
License Agreement.

- Check the Accept Terms box and click Next.



Custom Setup.

- Click Next.



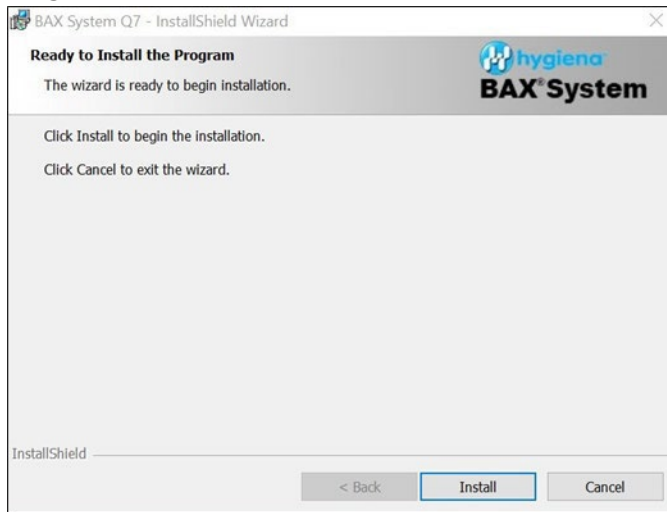
Password Protection.

- BAX default is disabled password protection. Choose an option for your lab, then click Next.



■ Ready to Install Program.

- Click Install.

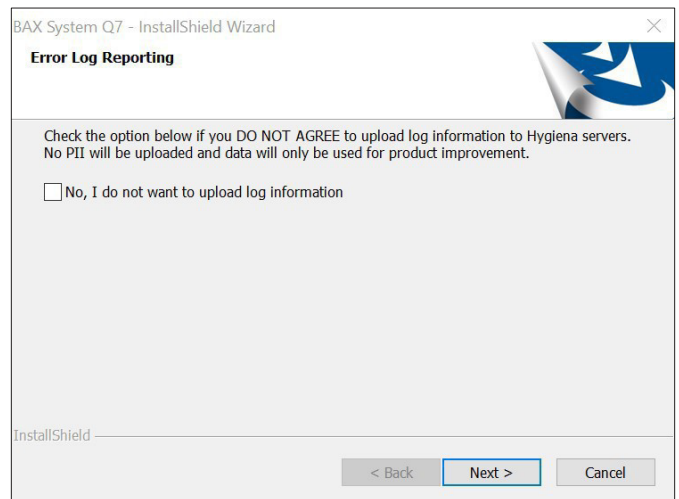
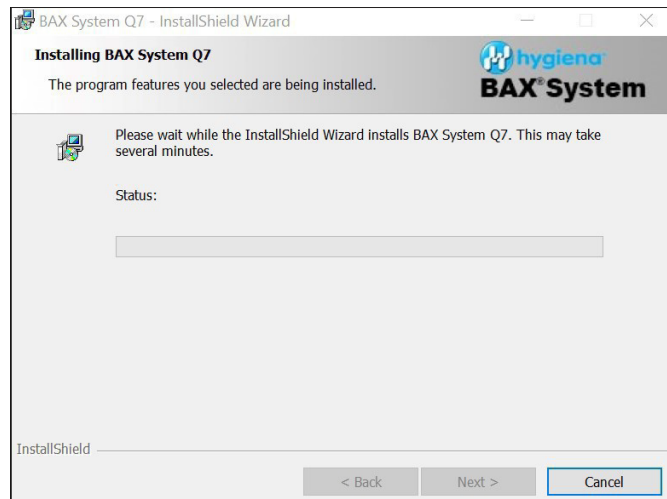


■ Installing BAX System Q7 Software.

- During installation, an Error Log Reporting window will pop up. We recommend NOT checking the box so the system can collect software and/or hardware errors in the Log Files to assist Technical Support in troubleshooting. However, please review and decide what is appropriate for your lab.

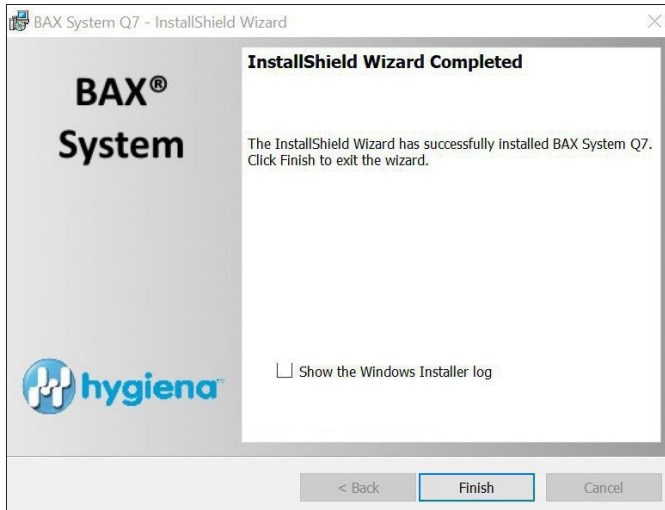
Note: 'Error reporting' only uploads errors and not the entire log file. Technical Support may ask you for logs even if you have error reporting enabled.

- Select Next to complete the installation.

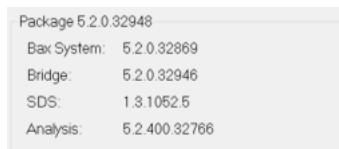


■ InstallShield Wizard Complete.

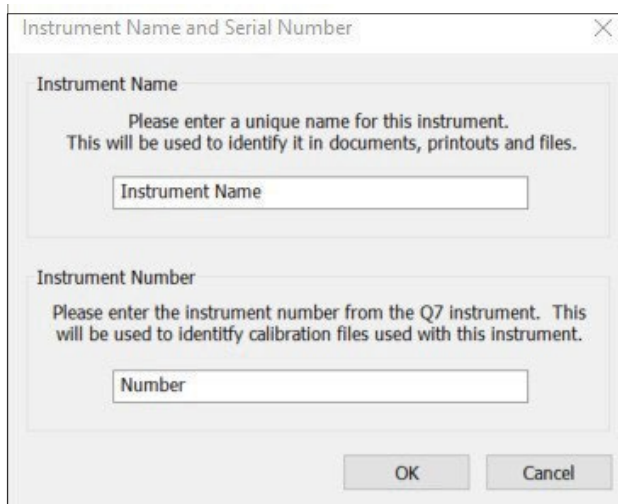
- Select Finish.



- Click on the desktop icon to initiate the program. The new open screen will display software version 5.2.0.32948.



- Enter the Instrument Name and Serial Number.
 - This will appear on reports and should be utilized.



7. Check the System's Calibration

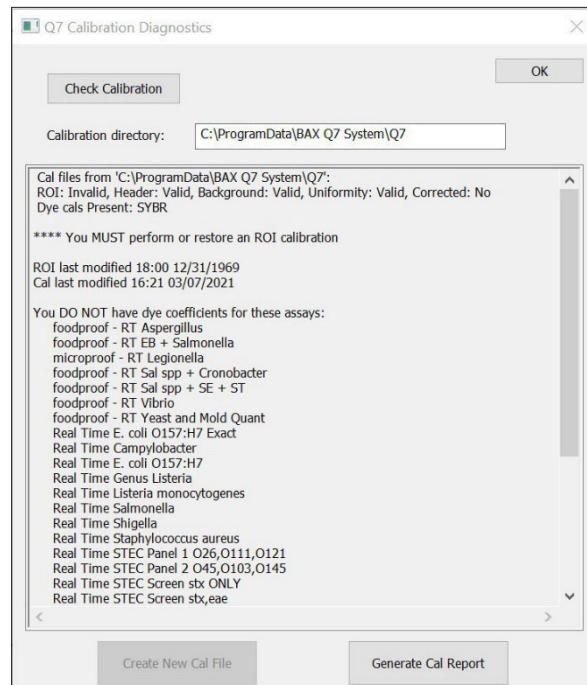
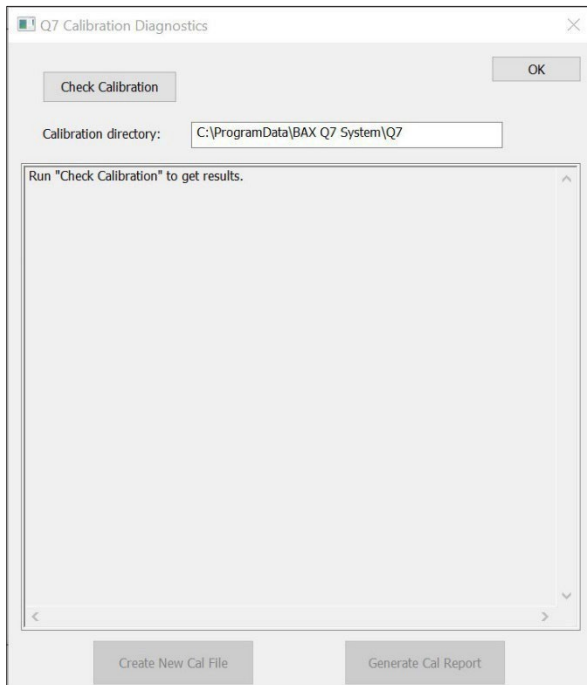
■ From the menu bar, select Diagnostics > Calibration to open the Q7 Calibration Diagnostics window

Click the Check Calibration button to determine the status:

- If calibration is available, no further actions are needed.
- If calibration is **NOT** optimal or **NOT** found:

Import the backed-up calibration file by selecting Operations > BAX Maintenance > Import Calibration from the menu bar and then selecting the backed-up calibration file from step 2.

- To utilize many foodproof assays, additional calibration using the HEX calibration kit must be performed. Please follow the onboard instructions in the BAX Software to perform calibration.



Appendix A: Algorithm Analysis Across Software Versions

The table below provides information to more easily identify algorithm consistency across software versions and validations.

Note: There have been no changes to the assay-specific algorithm since the analysis version listed.

| Product Number | Assay | BAX® Q7 Software Version with Same Algorithm as v5.2 |
|----------------|--|--|
| KIT2000 | BAX® System Real-Time PCR Assay for <i>E. coli</i> O157:H7 | 4.0 |
| KIT2001 | BAX® System PCR Assay for <i>Cronobacter</i> (<i>E. sakazakii</i>) | 4.0 |
| KIT2002 | BAX® System PCR Assay for <i>L. monocytogenes</i> 24E | 4.0 |
| KIT2003 | BAX® System PCR Assay for Genus <i>Listeria</i> 24E | 4.0 |
| KIT2004 | BAX® System PCR Assay for <i>E. coli</i> O157:H7 MP | 4.0 |
| KIT2005 | BAX® System Real-Time PCR Assay for <i>L. monocytogenes</i> | 4.0 |
| KIT2006 | BAX® System Real-Time PCR Assay for <i>Salmonella</i> | 4.0 |
| KIT2007 | BAX® System Real-Time PCR Assay for <i>Shigella</i> | 4.0 |
| KIT2008 | BAX® System Real-Time PCR Assay for STEC Panel 1 | 4.0 |
| KIT2009 | BAX® System Real-Time PCR Assay for STEC Panel 2 | 4.0 |
| KIT2010 | BAX® System Real-Time PCR Assay for <i>Vibrio</i> | 4.0 |
| KIT2011 | BAX® System PCR Assay for <i>Salmonella</i> 2 | 4.0 |
| KIT2016 | BAX® System PCR Assay for Genus <i>Listeria</i> | 4.0 |
| KIT2017 | BAX® System PCR Assay for <i>L. monocytogenes</i> | 4.0 |
| KIT2018 | BAX® System Real-Time PCR Assay for <i>Campylobacter</i> | 4.0 |
| KIT2019 | BAX® System Real-Time PCR Assay for Genus <i>Listeria</i> | 4.0 |
| KIT2020 | BAX® System Real-Time PCR Assay for <i>Staphylococcus aureus</i> | 4.0 |
| KIT2021 | BAX® System Real-Time PCR Assay for STEC Screening | 4.0 |
| KIT2039 | BAX® System Real-Time PCR Assay for <i>E. coli</i> O157:H7 Exact | 4.0 |
| KIT230131 | foodproof® <i>Salmonella</i> plus <i>Cronobacter</i> Detection LyoKit® | 5.1 |