

SureTrend® Quantification Calculator for the BAX® System



SureTrend® Quant

Getting Started

1. Following the completion of the BAX® System Real-Time PCR result analysis, ensure the file is saved in a known location as a .bax file.

Log into SureTrend.

The login page for SureTrend by Hygiena. It features a 'SureTrend' logo at the top. Below it are input fields for 'Username' and 'Password'. A link for 'Forgot Username or Password?' is provided. A checkbox for 'I'm not a robot' is accompanied by a CAPTCHA image and a 'Log in' button. Below the login section, there is a link for 'Not a member yet? Create new account'. At the bottom, there are buttons for 'Sign in with SSO' and 'Sign in with Google'. A 'Need help?' link is also present. The footer includes the copyright '©2024 Hygiena, LLC' and the Hygiena logo.

Quant Setup (Only at First Use of SureTrend Quant)

2. To log into a SureTrend account with the Premium package, navigate to 'Settings' (see **a** on the image to the right).

Under 'Account Management' (see **b**), ensure that the Package type is set to 'Premium' (see **c**).

If you have a starter package, you will need to click on the 'Upgrade' button (see **d**) and complete a form to access the Quant Online software.

The 'Account Management' page in the SureTrend interface. The top navigation bar includes links for Home, Dashboard, Results, Reports, Sites, Map, Audit Trail, Upgrade, and Quant. The 'Settings' link is highlighted with a red arrow labeled 'a'. Below the navigation bar, the 'Account Management' section is highlighted with a red arrow labeled 'b'. The 'Account Details' section shows fields for Company Name, Email, Phone, Address, City, State, Zip Code, Country, Licensed Site, Billing (NAV) Account, and STC Account. The 'Package' dropdown menu is set to 'Premium' and is highlighted with a red arrow labeled 'c'. An 'Upgrade' button is highlighted with a red arrow labeled 'd'. The page also includes sections for 'Domains', 'Single Sign-On (SSO) Configuration', and 'API Configuration'.



- To enable Quant, navigate to the 'Sites' tab (see a).

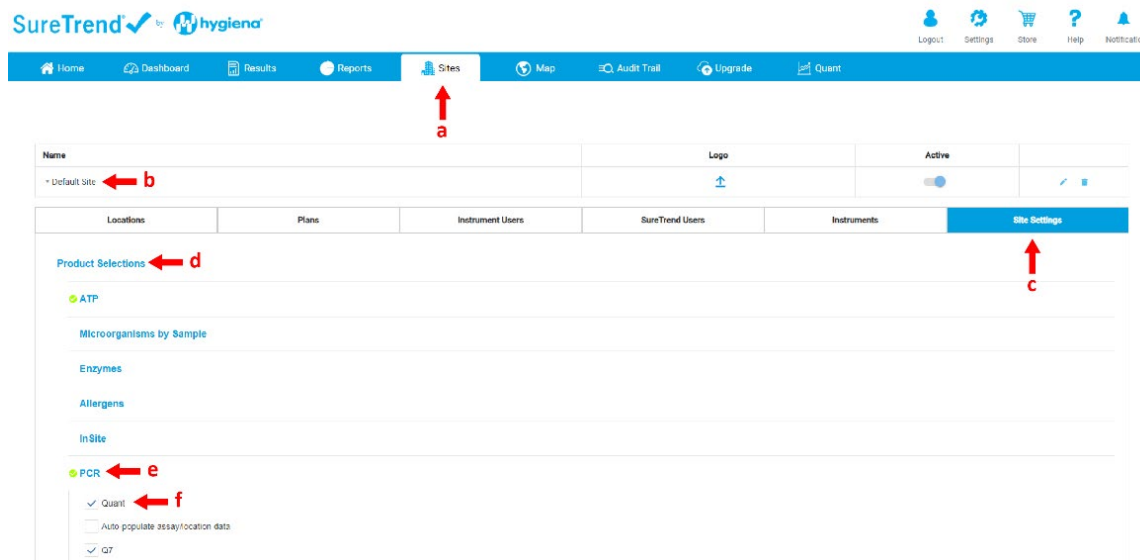
Select a site (see b).

Click on the 'Site Settings' tab (see c).

Under 'Product Selections' (see d), click on 'PCR' (see e).

Check the 'Quant' checkbox (see f).

Your account is now set up to use Quant in future data analyses.

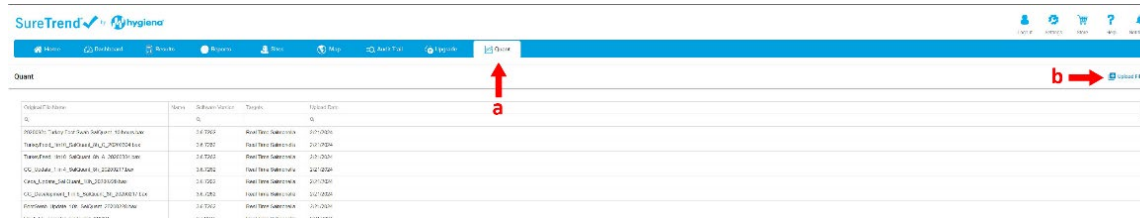


File Upload

After registering with SureTrend, BAX Q7 desktop computers with software 5.0 or later can be enabled to automatically upload files to SureTrend. Files may also be uploaded manually by following the steps below.

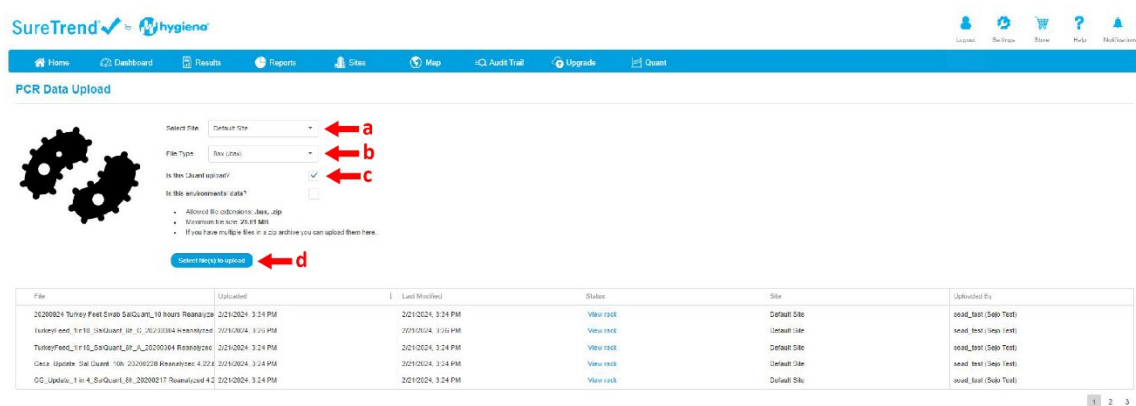
- To upload files manually, navigate to the 'Quant' tab (see a).

Click on the 'Upload Files' button (see b).

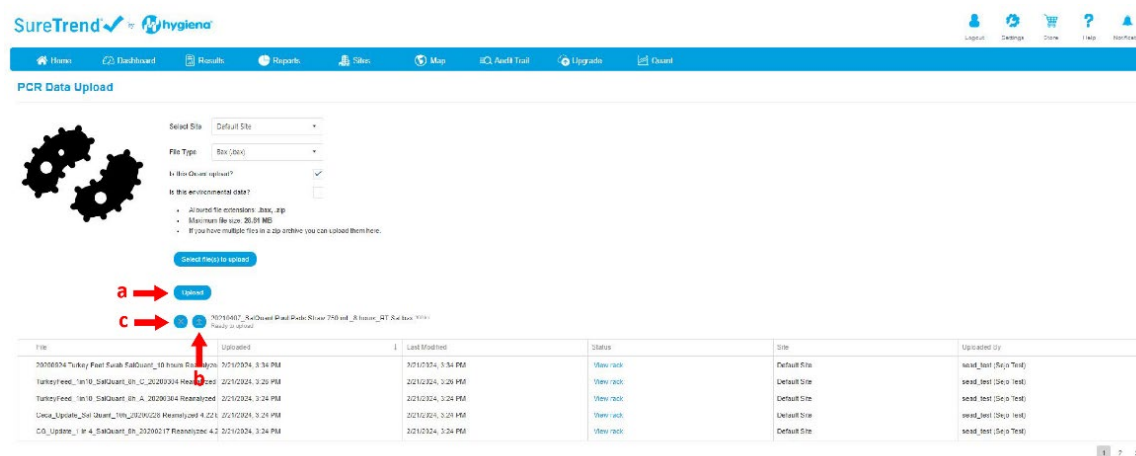




- Select the site from the dropdown list (see **a**).
Select 'Bax (.bax)' for the File Type (see **b**).
Ensure the box is checked for the question, 'Is this Quant upload?' (see **c**).
Press the 'Select file(s) to upload' button (see **d**).
Select .bax file(s) from your saved location.
Note: Multiple files can be uploaded at once.



- Press the 'Upload' button (see **a**) to upload all the files that appear under the 'Upload' button.
Files can be uploaded individually by clicking on the upload icon next to the file name (see **b**).
Files can be removed from the list by clicking on the delete icon next to the file name (see **c**).





View and Export BAX Quant Results

- When the Status changes from 'Uploading...' to 'View rack', the file has been uploaded successfully (see **a**).

Click on "View rack" to open the PCR results table.

PCR Data Upload

Selected File: Default Q10

File Type: Raw (CSV)

Is this Quant uploaded? ☒

Is this environmental data? ☐

Additional file extensions: .json, .zip

Maximum file size: 20 MB (500)

If you have multiple files in a zip, archive you can upload them here.

Submit

20200407_SatQuant_PCRData_750 mL_8 hours_RT_Salmon (1/1)

File	Uploaded	Last Modified	Status	Site	Uploaded By
20200407_SatQuant_PCRData_750 mL_8 hours_RT_Salmon	2020/04/07, 10:08 AM	2020/04/07, 10:08 AM	Uploading...	Default Site	user_test (Site Test)
20200407_Turkey_Feet_SatQuant_10 hours_PCRdata	2020/04/07, 3:34 PM	2020/04/07, 3:34 PM	View rack	Default Site	user_test (Site Test)
TurkeyFeed_Tin10_SatQuant_BA_20200407 Reanalyzed	2020/04/07, 3:34 PM	2020/04/07, 3:34 PM	View rack	Default Site	user_test (Site Test)
TurkeyFeed_Tin10_SatQuant_BA_20200407 Reanalyzed	2020/04/07, 3:34 PM	2020/04/07, 3:34 PM	View rack	Default Site	user_test (Site Test)
Deck_Uptake_SatQuant_10h_20200407 Reanalyzed 4.22	2020/04/07, 3:34 PM	2020/04/07, 3:34 PM	View rack	Default Site	user_test (Site Test)

- Select the rows you want to view in more detail by checking the boxes in the first column (see **a**). The rows will become highlighted in gray.

Click on the 'Quant results' button (see **b**).

Results

Original File Name: 1.0001_SatQuant_BA_GroundPork Time Detection: 2/20/2020, 4:21 PM

60 Weeks

Result ID	Result State	Time of Detection	Site	Vial Number	Location	Description	Quant Value	Mark Description	Operator ID	Name	Control Result	Control Status	Assay	Rack View
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	1	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	2	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	3	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	4	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	5	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	6	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	12	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	13	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	15	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	16	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	19	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	20	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	21	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	24	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	25	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	26	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	27	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	28	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	29	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	30	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	31	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	32	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	33	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	34	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	35	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	36	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	37	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	38	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	39	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	40	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	41	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	42	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	43	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	44	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	45	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	46	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	47	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	48	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	49	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism
202006	Positive	7/6/2020, 4:21 PM	Q1 Timeline 0	50	LOC1 SatQuant 0 hour						0	Integrated	Real Time Salmonella	Q1-0302 Ism



9. In the rack view, select individual wells for analysis by clicking on the name (see **a**) or Select/Unselect All by clicking on the blue icon (see **d**) in the top right corner of the screen.

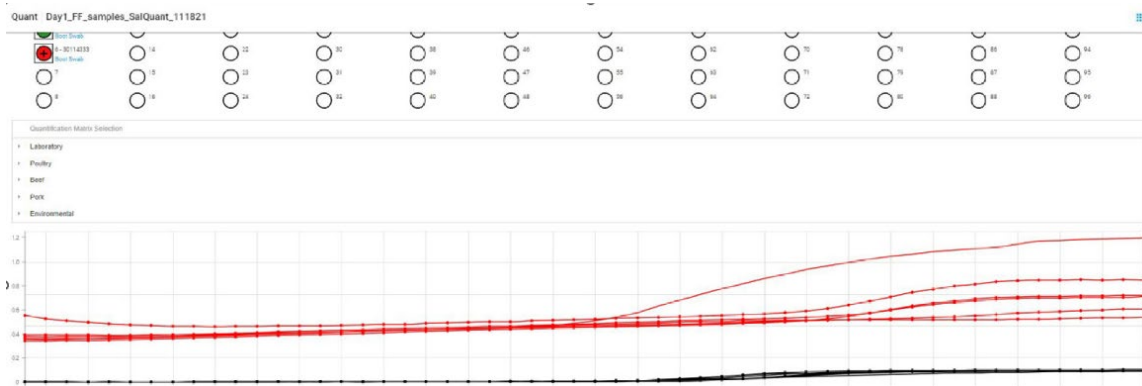
From the Quantification Matrix Selection under the rack view, select the industry name (see **b**) to open the list of matrices and select the matrix (see **c**).

Click on the blue icon (see **d**) in the top right corner of the screen and select 'Analyze' (see **e**) from the dropdown menu.

The screenshot shows the 'Quant Day1_FF_samples_SalQuant_111821' interface. At the top, there is a grid of wells with names like '1-30114028', '2-30114029', etc. A red box highlights the first four wells, with a red arrow labeled 'a' pointing to the first well. In the top right corner, there is a blue icon labeled 'd' and a dropdown menu with 'Analyze' labeled 'e'. Below the grid, there is a 'Quantification Matrix Selection' section with a tree view showing 'Laboratory' and 'Poultry'. A red arrow labeled 'b' points to 'Poultry', and a red arrow labeled 'c' points to 'Rinstate'. Below this, there is a table with columns: Name, Time Point, Report Unit Per Sample, Report Unit, and Limit Of Quantification.

Name	Time Point	Report Unit Per Sample	Report Unit	Limit Of Quantification
Rinstate	5	LogCFU/Carcass	LogCFU/mL	1 CFU/mL
Rinstate (Low Level)	10	LogCFU/Carcass	LogCFU/mL	0.5 CFU/30 mL Sample
Ground Chicken 1:4	8	LogCFU/25g	LogCFU/g	1 CFU/g
Ground Chicken 1:6	8	LogCFU/25g	LogCFU/g	1 CFU/g
Ground Turkey 1:1	8	LogCFU/25g	LogCFU/g	1 CFU/g
Ground Turkey 1:4	8	LogCFU/25g	LogCFU/g	1 CFU/g
Ground Turkey 1:6	8	LogCFU/25g	LogCFU/g	1 CFU/g

10. The graphical results of the selected wells will be displayed.





- View the table under the graphs for additional details and to export Quant results.

Estimations (Estimated Log CFU per Sample) (see **a**) will be displayed in multiple unit formats to be used at the user's discretion.

Click on the Column Chooser icon (see **b**) to open the selection box (see **c**) and choose the data that you want to export.

Click on the export button (see **d**) to download a .csv file.

Quant: TurkeyFeed_1in10_SalQuant_8h_C_20200304.bax

Sample ID	PCR Kit	Status	Lot Number	CT	Estimated Log CFU per Sample	Report Unit Per Sample	Estimated Log CFU per Unit	Report Unit	Limit of Quantification	CFU Per Sample	CFU Per Unit	Status
1 B1_8_0	Real Time Salmonella	Feed	201919K	0	Quant Negative	LogCFU25g	Quant Negative	LogCFUg	10 CFU/g	Quant Negative	Quant Negative	83
2 B1_8_0	Real Time Salmonella	Feed	201919K	0	Quant Negative	LogCFU25g	Quant Negative	LogCFUg	10 CFU/g	Quant Negative	Quant Negative	83
3 B1_8_0	Real Time Salmonella	Feed	201919K	0	Quant Negative	LogCFU25g	Quant Negative	LogCFUg	10 CFU/g	Quant Negative	Quant Negative	83
4 B1_8_0	Real Time Salmonella	Feed	201919K	0	Quant Negative	LogCFU25g	Quant Negative	LogCFUg	10 CFU/g	Quant Negative	Quant Negative	83
5 B1_8_0	Real Time Salmonella	Feed	201919K	0	Quant Negative	LogCFU25g	Quant Negative	LogCFUg	10 CFU/g	Quant Negative	Quant Negative	83
6 B1_4_0	Real Time Salmonella	Feed	201919K	30.9	5.5	LogCFU25g	< 10 CFU/g	LogCFUg	10 CFU/g	314674	8247	83
7 B2_4_0	Real Time Salmonella	Feed	201919K	31.4	6.32	LogCFU25g	< 10 CFU/g	LogCFUg	10 CFU/g	287940	8218	83
8 B3_4_0	Real Time Salmonella	Feed	201919K	31	6.46	LogCFU25g	< 10 CFU/g	LogCFUg	10 CFU/g	288377	1815	83
9 B2_8_0	Real Time Salmonella	Feed	201919K	0	Quant Negative	LogCFU25g	Quant Negative	LogCFUg	10 CFU/g			83
10 B2_8_0	Real Time Salmonella	Feed	201919K	0	Quant Negative	LogCFU25g	Quant Negative	LogCFUg	10 CFU/g			83
11 B2_8_0	Real Time Salmonella	Feed	201919K	0	Quant Negative	LogCFU25g	Quant Negative	LogCFUg	10 CFU/g			83
12 B2_8_0	Real Time Salmonella	Feed	201919K	0	Quant Negative	LogCFU25g	Quant Negative	LogCFUg	10 CFU/g			83
13 B2_8_0	Real Time Salmonella	Feed	201919K	0	Quant Negative	LogCFU25g	Quant Negative	LogCFUg	10 CFU/g			83
14 B1_4_0	Real Time Salmonella	Feed	201919K	30.3	5.77	LogCFU25g	< 10 CFU/g	LogCFUg	10 CFU/g			83
15 B2_4_0	Real Time Salmonella	Feed	201919K	31.7	6.21	LogCFU25g	< 10 CFU/g	LogCFUg	10 CFU/g			83
16 B3_4_0	Real Time Salmonella	Feed	201919K	32.3	6.95	LogCFU25g	< 10 CFU/g	LogCFUg	10 CFU/g			83

Technical Assistance

For detailed troubleshooting on the BAX System instrument, see the BAX System Q7 User's Guide. For instructions for specific matrices and pathogen targets when using the BAX System, see the *Quantification and Limits Manual*. Guides and manuals are available at www.hygiena.com/documents.

If you have any additional questions or comments on the BAX System or quantification procedures, contact Hygiena Diagnostics Support by email at diagnostics.support@hygiena.com.