Alltech
MYCOTOXIN
MANAGEMENT

Alltech® RAPIREAD™

Customer User Manual

What is Alltech® RAPIREAD™?

Alltech® RAPIREAD™ is the latest addition to our integrated system of tools and technologies that provide the most comprehensive protection from the threat of mycotoxins. Suitable for testing individual grains and forages, the system highlights real-time mycotoxin contamination on-farm or in the feed mill, providing you with 24/7 access to detailed results and analysis.

The Alltech RAPIREAD system consists of:

- The Raptor® Integrated Analysis Platform.
- Alltech RAPIREAD Mobile App.
- Alltech RAPIREAD Data Sync Tool.
- Mycotoxin Management Portal.

Accurate results can currently be determined in the field or the feed mill environment for aflatoxin, ochratoxin, zearalenone, DON, T2/HT-2 toxins, fumonisin and ergot toxins.

Important: Before using Alltech RAPIREAD, please create an Alltech Mycotoxin Management Portal account by following the steps in this separate guide. Once your account is set up, you can use the instructions in this manual to proceed to submit a test request and carry out mycotoxin testing with Alltech RAPIREAD.

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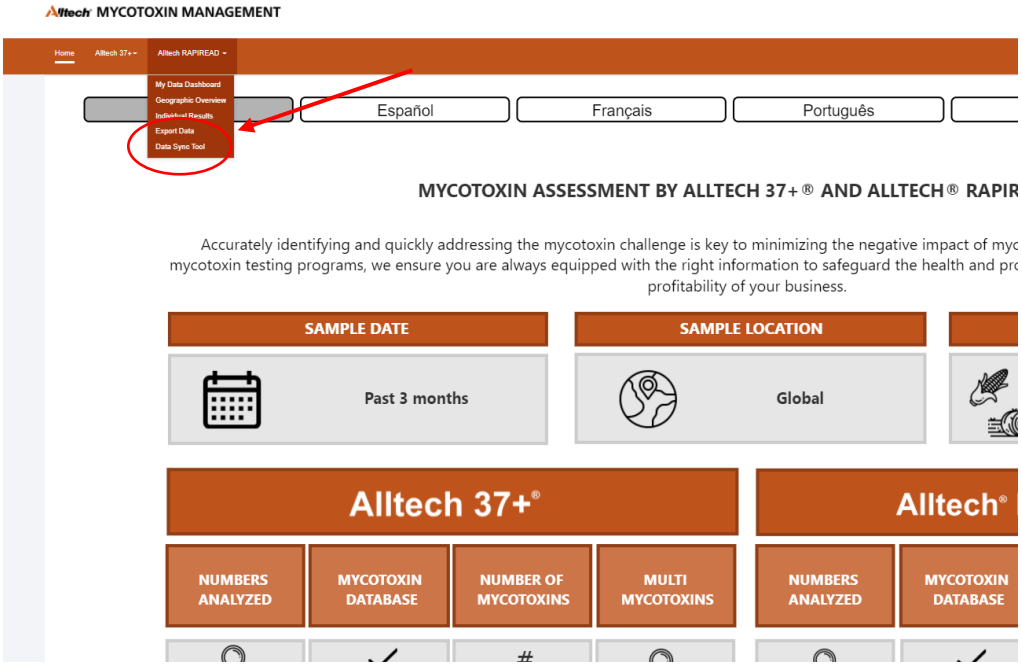
Step 1: Download and install the Alltech RAPIREAD Data Sync Tool on your PC or laptop

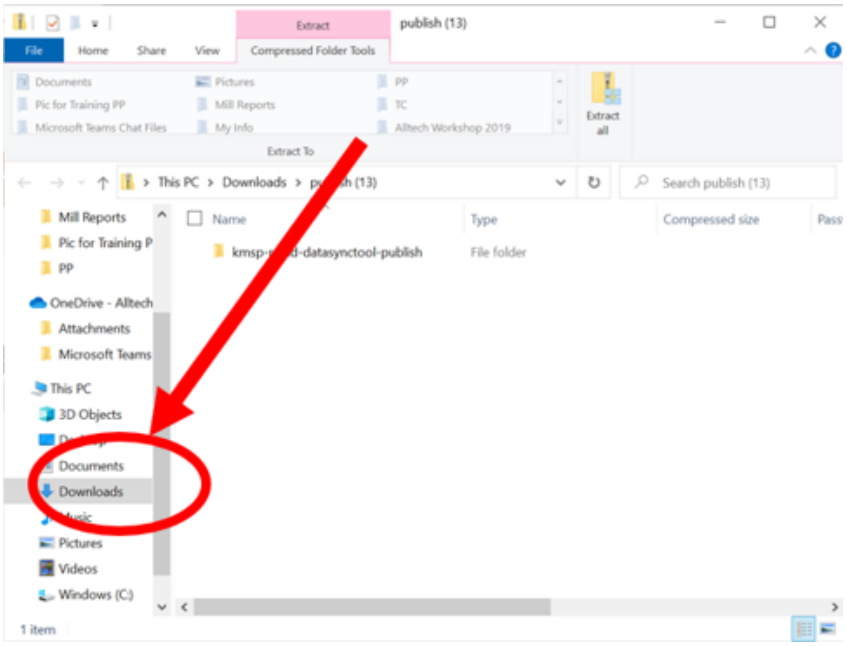
A. Visit the Mycotoxin Management Portal at www.knowmycotoxins.com and click CLIENT LOGIN.

B. Enter your user credentials and click Login (this is username and password you will have used for setting up your portal account).

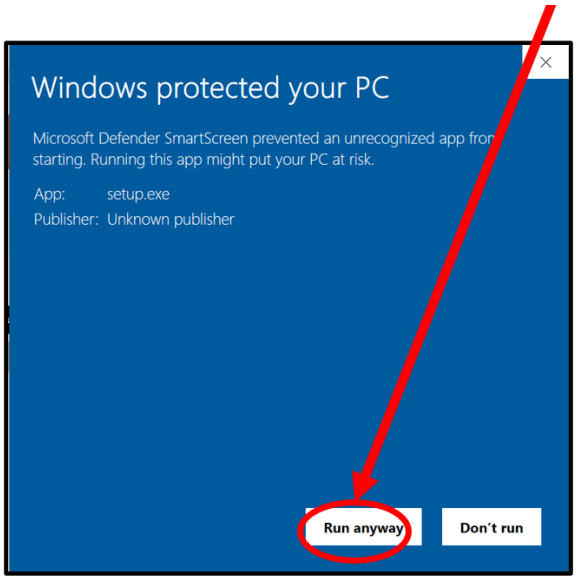
C. When you arrive at the home page, click **Alltech RAPIREAD,** found on the orange header, and then select **Data Sync Tool.** Wait for the setup file named 'publish.zip' to download.



D. Once downloaded, click the download icon in the top left corner. If a Google Drive warning appears during the downloading process, click **download anyway**.



E. Once the file has downloaded, open the publish folder and double click the setup file. If a Windows Defender warning appears, click **More info** and click **Run anyway.**



F. Click **Install** and wait until the program fully installs.

G. The Alltech RAPIREAD Data Sync Tool should now be installed, and you will be taken to the sign-up screen.

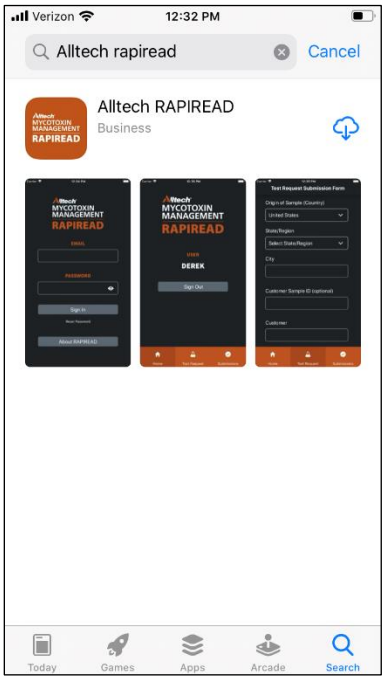
H. You will now be able to access the Alltech RAPIREAD Data Sync Tool from your windows desktop under **Alltech RAPIREAD Data Sync Tool.**

Signing into the Alltech RAPIREAD Data Sync Tool:

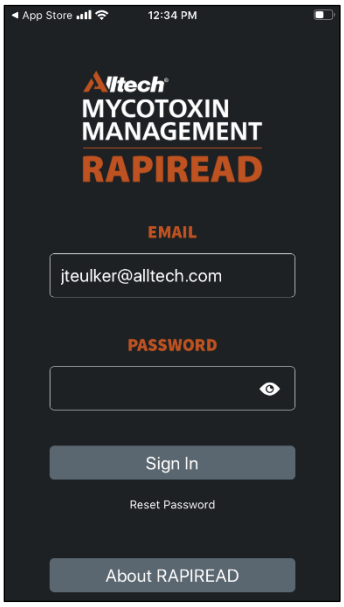
1. Open the Alltech RAPIREAD Data Sync Tool on your PC.
2. Enter your username and password (These are the same credentials as the Mycotoxin Management Portal).
3. Click Submit.
4. Go to your emails and wait for the verification code email. Copy and paste the verification code into the appropriate fields.
5. Click Sign In.
6. The Alltech RAPIREAD Data Sync Tool will now open and you can begin to sync files.

Step 2: Downloading the Alltech RAPIREAD Mobile App on your iOS or Android mobile device

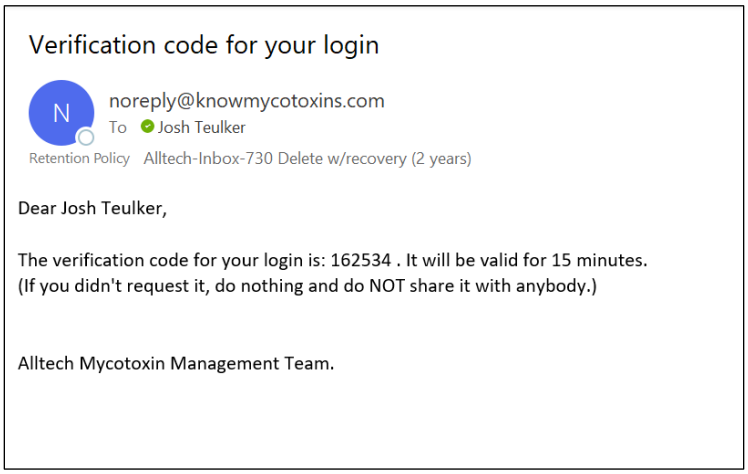
A. In the iOS App Store or Google Play store, search ''Alltech RAPIREAD''.
   a. For iPhone users, click GET in the iOS App Store and enter your Apple ID and username to install.
   b. For Android users, click Install in the Google Play Store to install.



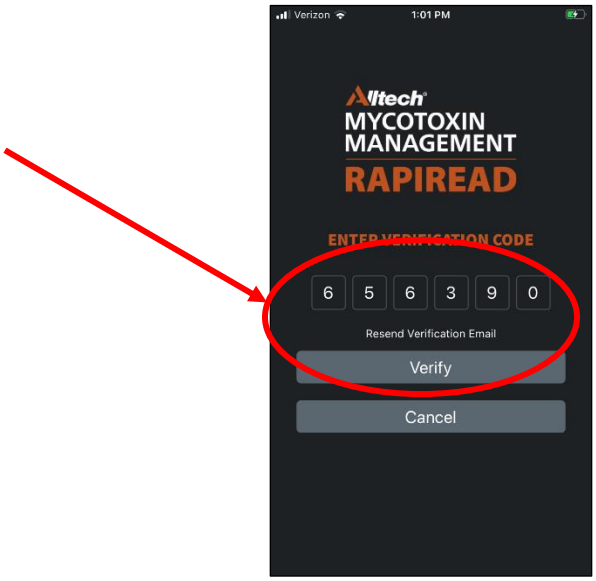
B. Once installed, open the app and you will be taken to the sign in page. Sign in with your portal email and password.



C. A verification code will be sent to your email.



D. Enter the verification code and click **Verify.**



Congratulations! You have now downloaded and installed each of the necessary tools to run mycotoxin tests and view the subsequent results on Alltech RAPIREAD.

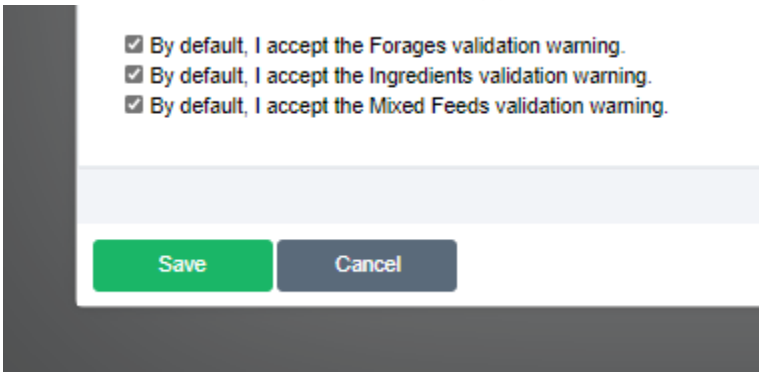
Note: You will be required to sign in every 30 days. The previous login will expire after 30 days, and you will require a new verification code when signing in again.

Carrying out a mycotoxin test with Alltech RAPIREAD

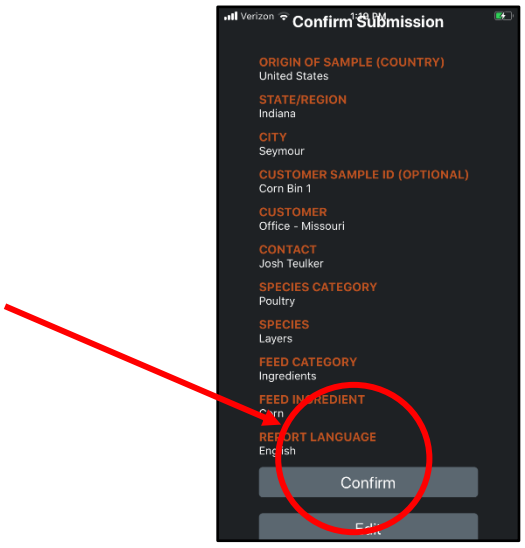
Note: The same Mycotoxin Management Portal login credentials must be used for the Alltech RAPIREAD Data Sync Tool and the Alltech RAPIREAD Mobile App to successfully carry out a test and transfer the information.

Step 1: Create a test request using the Alltech RAPIREAD Mobile App

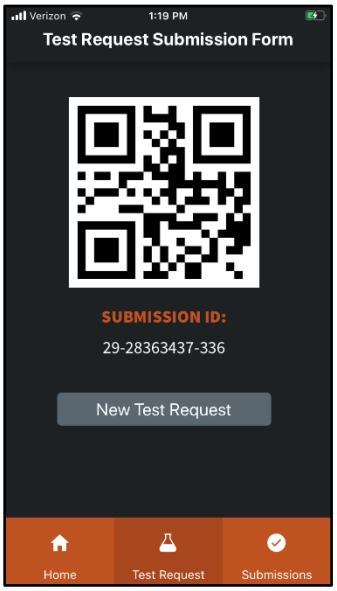
A. Open the Alltech RAPIREAD Mobile App and login if required.
B. Click on the Test Request tab at the bottom of the screen.
C. Complete all the required fields.
Tip: All the fields on the Test Request tab can be prefilled to save time. For example: If a test is always going to be conducted in a certain State/Region, that box can be prefilled. You can also default to accept the Alltech RAPIREAD validation warnings. See the Company Settings on page 28 for defaulting Alltech RAPIREAD Test Request Fields on the Alltech RAPIREAD Mobile App.



D. Click Submit.
E. Check that all details are correct on the submission page and click **Confirm** to finish.



F. A QR Code will be generated. This code will be used on the Raptor in future steps.



*Tip: If you lose the QR code you created, go to the **Submissions** tab on the Alltech RAPIREAD Mobile App and click on the Test Request. This will bring the QR code back up on the app.*

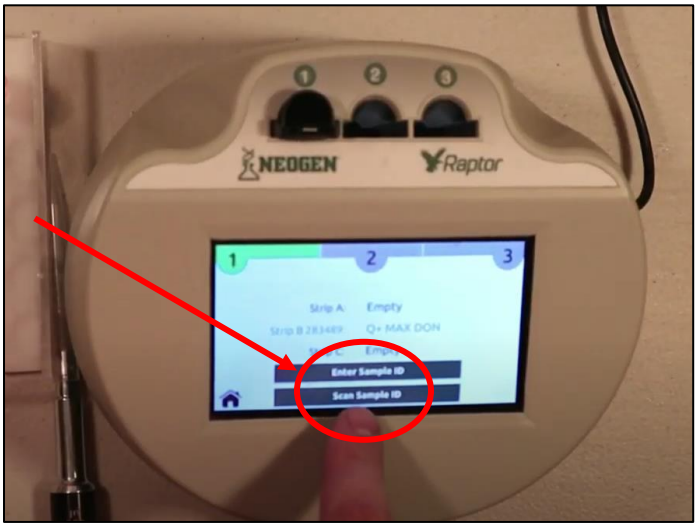
Note: Ensure you have good internet or mobile connection when creating a test request. If connection is interrupted, the test request may not work properly.

Step 2: Carrying out the mycotoxin test on the Neogen Raptor device

A. Follow the guidelines that Neogen provides to prepare a sample for testing. These guidelines are found in the booklets provided in each Reveal Quantitative Test Box.

B. Once the sample is prepared and ready to test, insert the appropriate test strip in a cartridge and insert the cartridge into 1 of the 3 ports on the top of the Raptor.

C. The Raptor will read the test strip and ask to either Enter Sample ID or Scan Sample ID. Choose **Scan Sample ID**.



D. Scan the QR Code that was created on the Alltech RAPIREAD Mobile App for the sample being tested.

Tip: Ensure the backlight on your phone is turned to the brightest setting.

E. Continue to follow Neogen's instructions to complete the mycotoxin test.

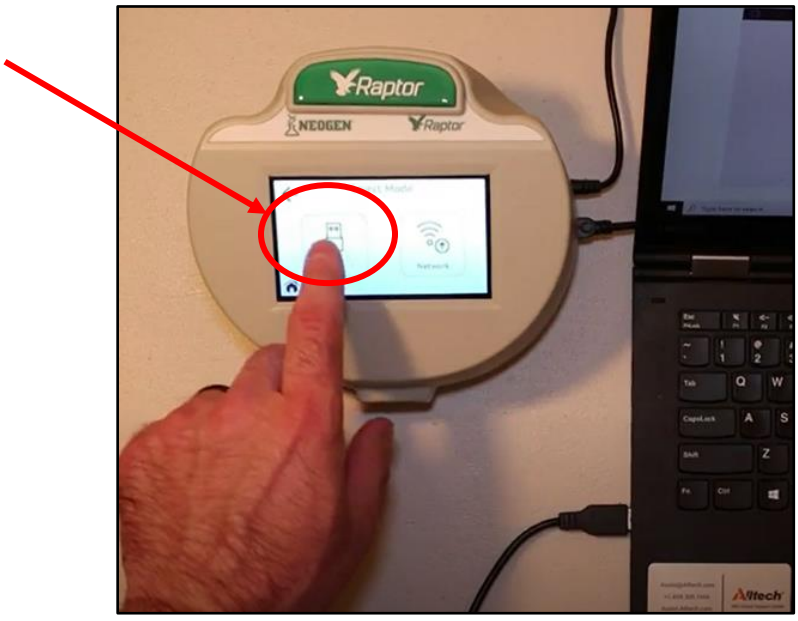
Note: Each QR Code represents 1 sample. Continue to scan the same QR code if testing for multiple mycotoxins. You will require 3 or more toxin tests to get all features, such as REQ, on the quick report.

Step 3: Uploading test results using the Alltech RAPIREAD Data Sync Tool

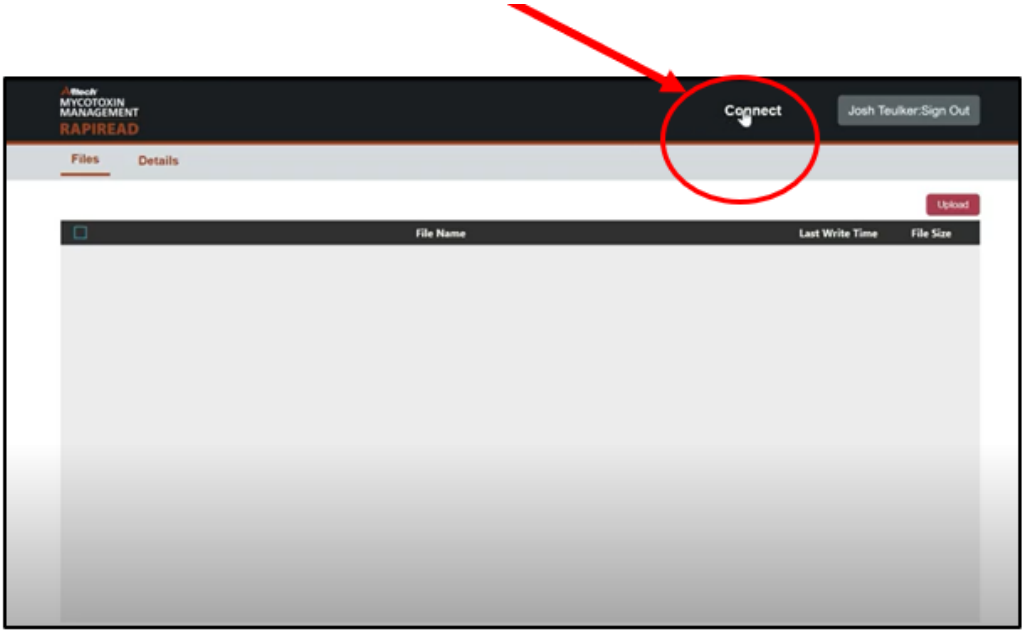
A. Once all mycotoxin tests have been completed for the sample, use the USB cable to connect the Neogen Raptor device to your laptop or PC.

Note: This step will only work via USB. Network connection will result in an error.

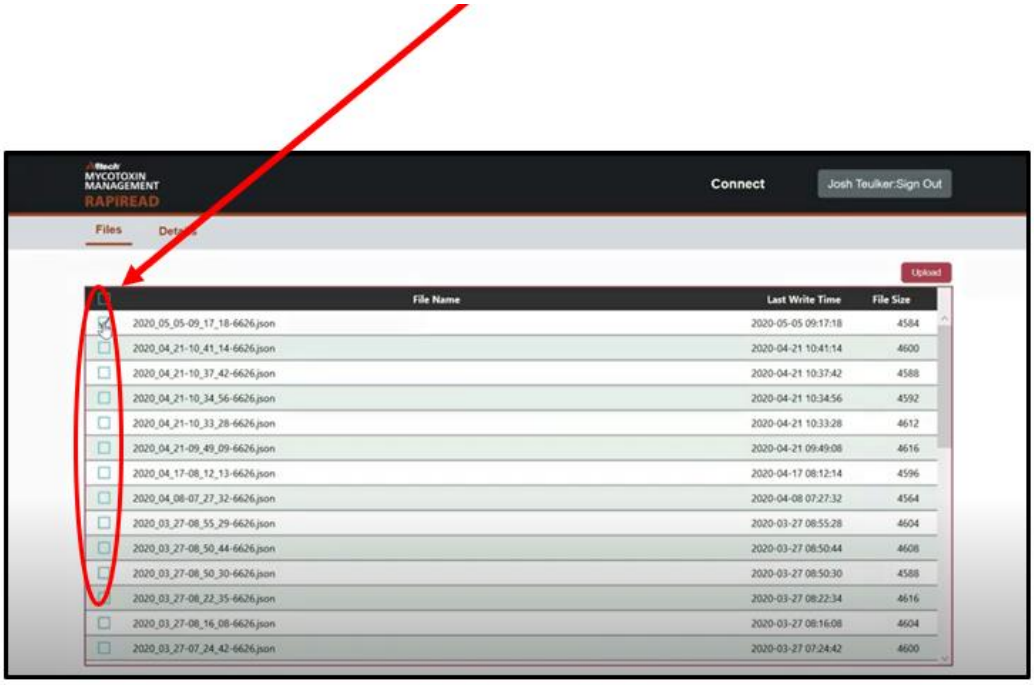
B. Open and sign in to the Alltech RAPIREAD Data Sync Tool if necessary.
C. On the Raptor, select the computer icon and select the **Connect with USB** option.



D. It may take a few minutes for the Raptor to install. Wait until your PC displays the **Device is ready** message before continuing.
E. Once installed, click the **Connect** button in the right corner of the screen. All files on the Raptor should now display under the **Files** tab.



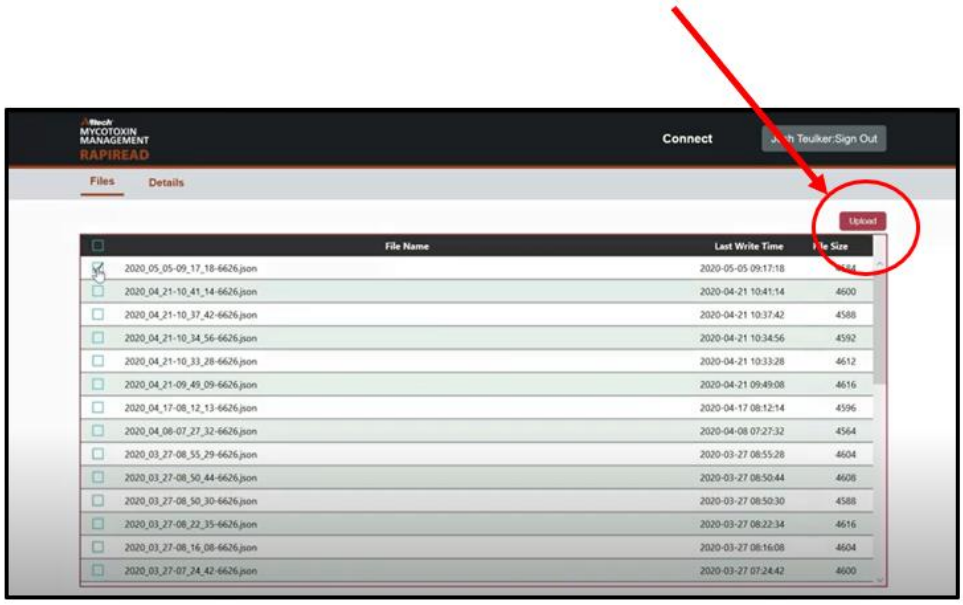
F. Select the files you want to sync by clicking on the check box on the left side of the file name.



Note: An error will occur if any test is selected that has already been uploaded to Alltech RAPIREAD or does not have a QR Code associated with the sample.

G. To check the details of a test sample, click the **Details** tab.

H. Click **Upload** and wait for the files to finish syncing.



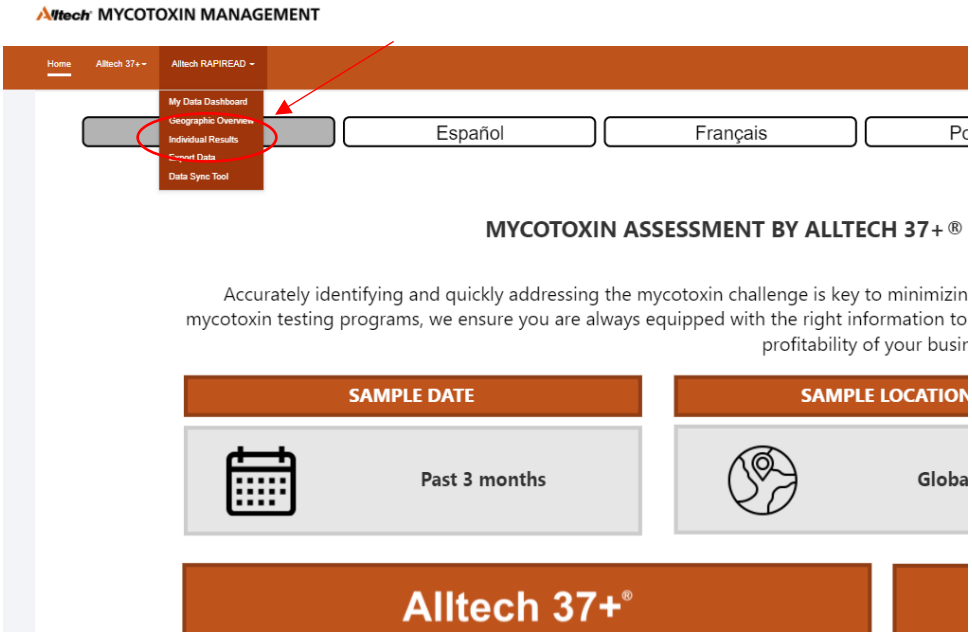
I. Your report will now be available to view.

Step 4: Viewing mycotoxin quick reports on the Mycotoxin Management Portal

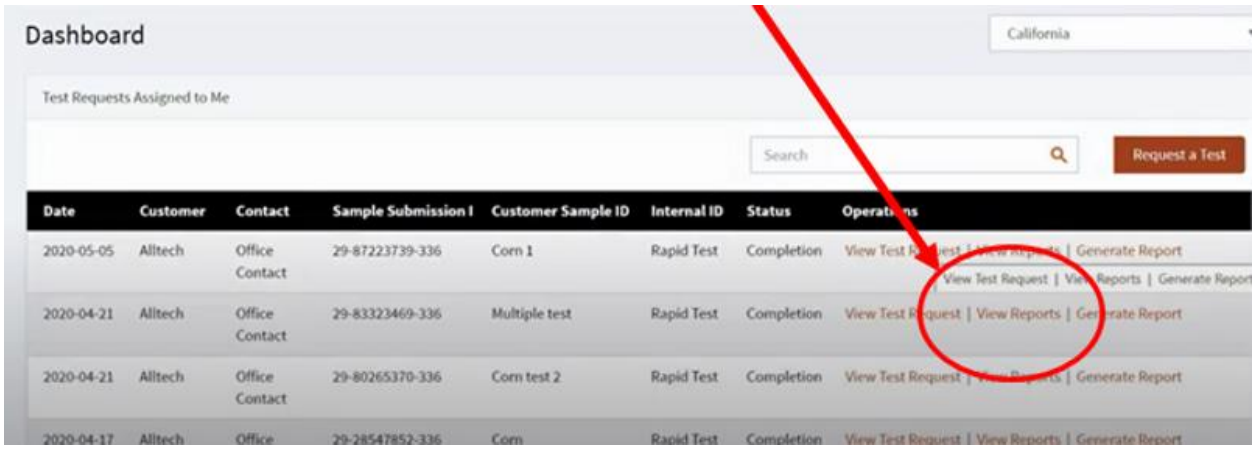
A. Visit www.knowmycotoxins.com.

B. Click on **Client Log In** and enter your Username and Password.

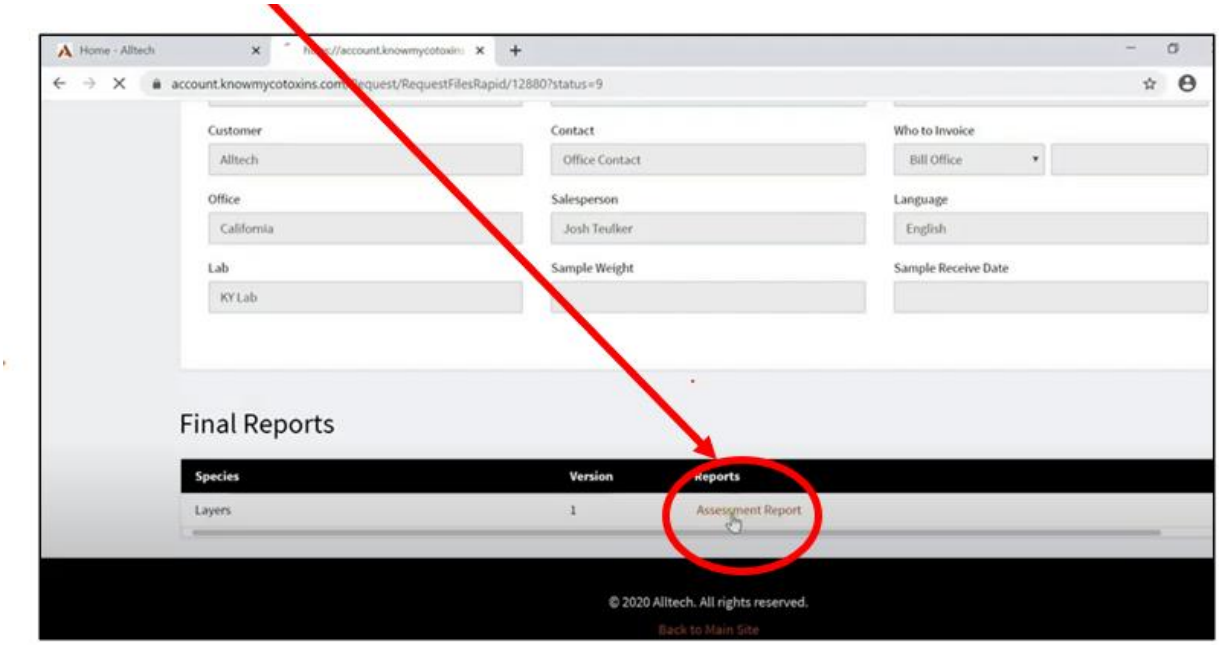
C. Click **Alltech RAPIREAD** on the task bar and click **Individual Results.**



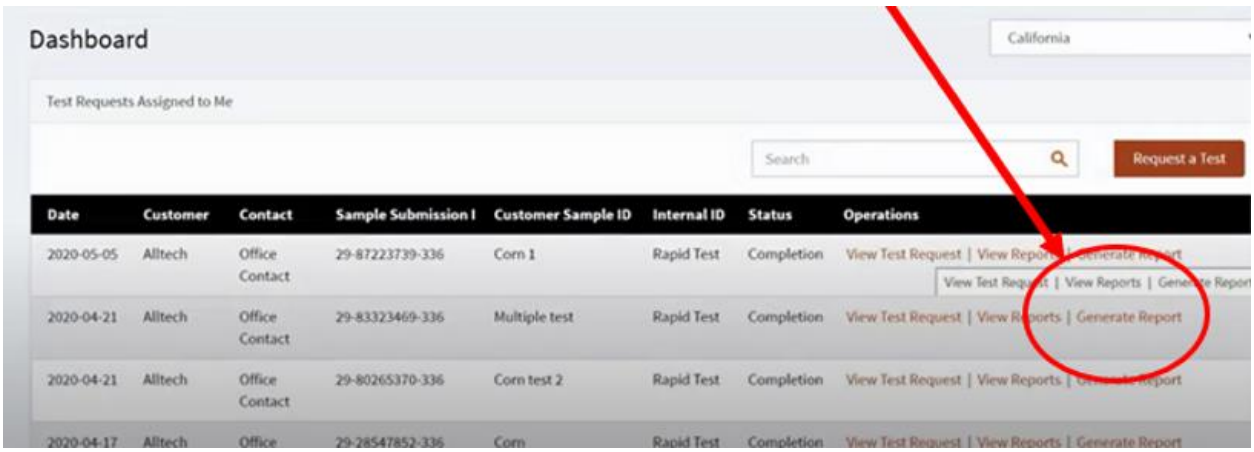
D. Click **View Reports** under the Operations column.



E. Scroll to the bottom of the page. Under Final Reports, click **Assessment Report** under the Reports column.

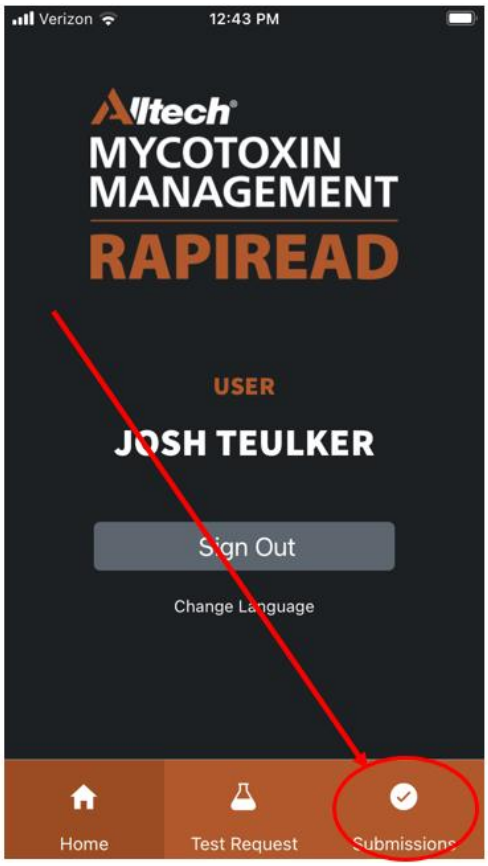


Note: You can also generate new reports for different species by clicking ***Generate Report*** *under the operations column on the home screen. Select a new species in the dropdown box and click* ***Generate Report*** *in the bottom right corner. Your new report will appear under Final Reports.*

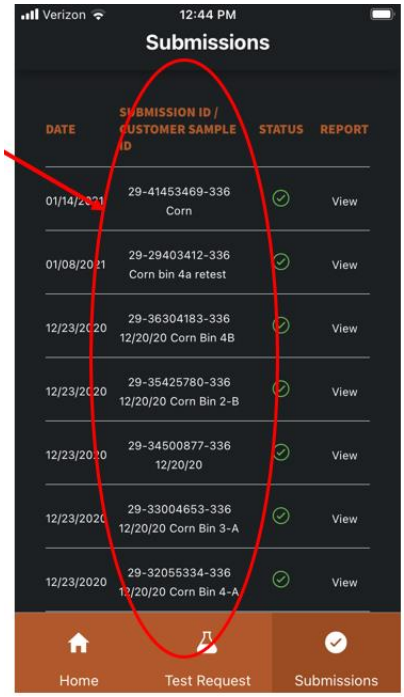


Step 5: Viewing a Mycotoxin Quick Report on the Alltech RAPIREAD Mobile App

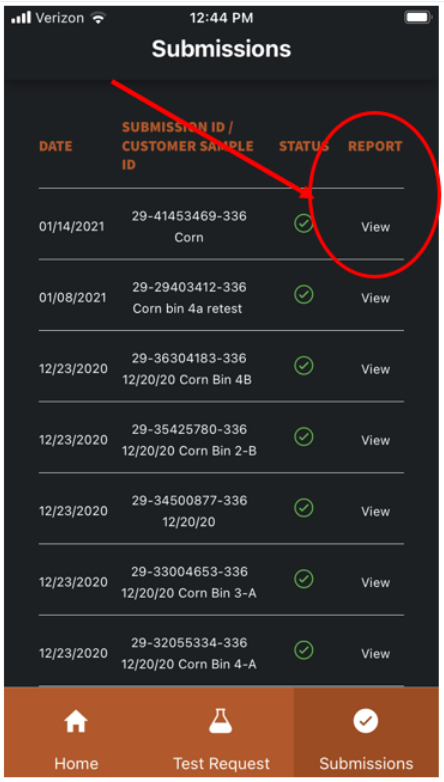
A. Open the Alltech RAPIREAD Mobile App and sign in if required.
B. Click on the **Submissions** tab at the bottom of the screen.



C. From here, you can view a full list of all your mycotoxin test submissions.



D. Under the report column, click **View** to view the results of a mycotoxin test.



Note: This can only be done when the submission from the Alltech RAPIREAD Mobile App and the results from the Raptor have been synced. If the status column reads 'pending,' you will need to sync the Alltech RAPIREAD Mobile App and results.

E. Click **Back** to navigate back to the view of all your test submissions.

Other features of the Mycotoxin Management Portal

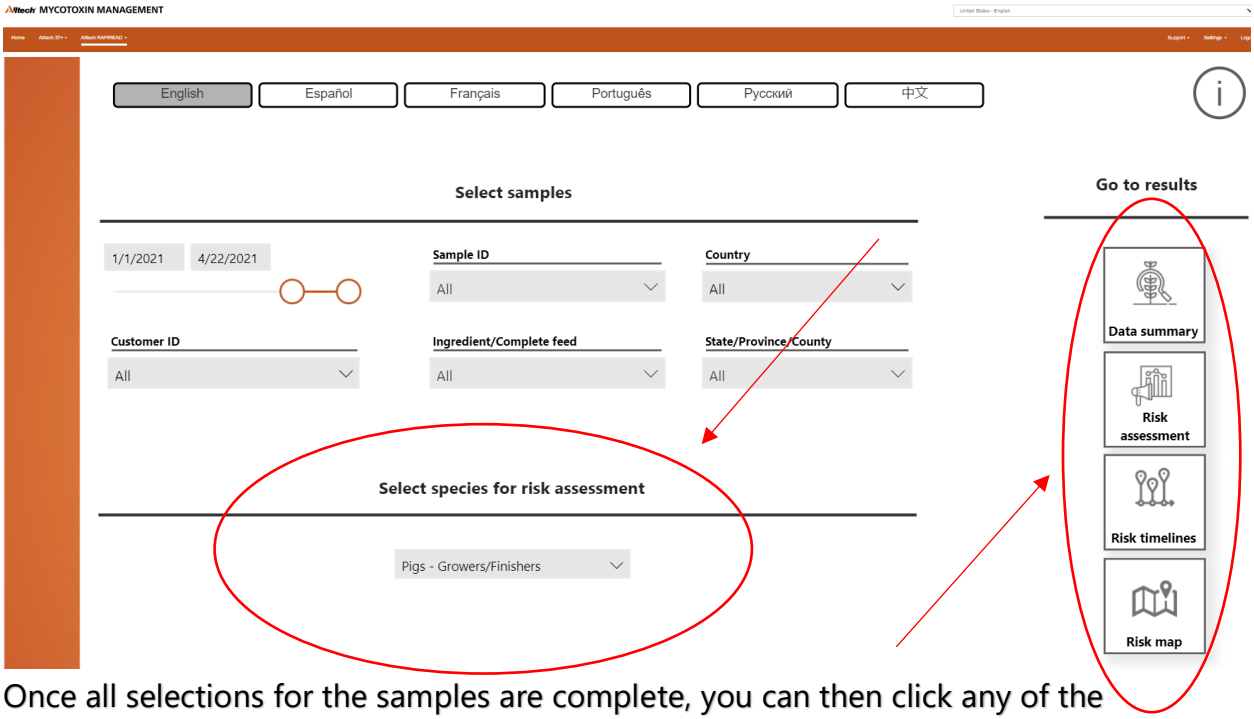
The new Mycotoxin Management Portal offers many new functions to users, including a My Data Dashboard where users can filter samples by different species and generate results for different Data Summaries, Risk Assessments, Risk Timelines and Risk Maps. More features include the ability to view a Geographic Overview of the samples tested and export data to an excel sheet.

Navigating the new Mycotoxin Management Portal

The Home screen now gives an overview of all Mycotoxin tests conducted with Alltech RAPIREAD and Alltech 37+® over the past three months, as well as allowing you to switch to any of the six available languages on the portal. From the Home screen, you can navigate to the new features of the Mycotoxin Management Portal, including My Data Dashboard, Geographical Overview and Exporting Data. For instructions to view Individual mycotoxin test results, see step 4 of the manual.

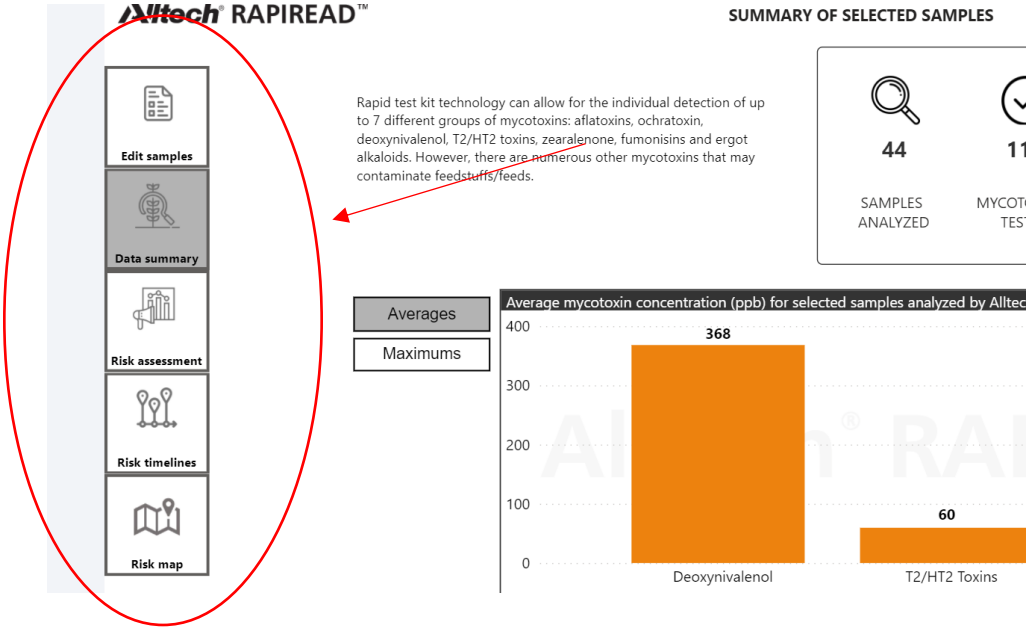
Viewing My Data Dashboard

A. From the Home screen, click the Alltech RAPIREAD button on the orange ribbon.
B. Then click My Data Dashboard
C. On the My Data Dashboard screen, select your language and a date range you would like to view samples in by entering the dates in the gray boxes or by moving the orange circles on the slider bar.
D. You can also filter between Customer ID, Sample ID, Ingredient/Complete feed, Country and State/Province/County if you have a specific need for viewing specific samples.
E. Next, select the species for the risk assessment at the bottom of the page.

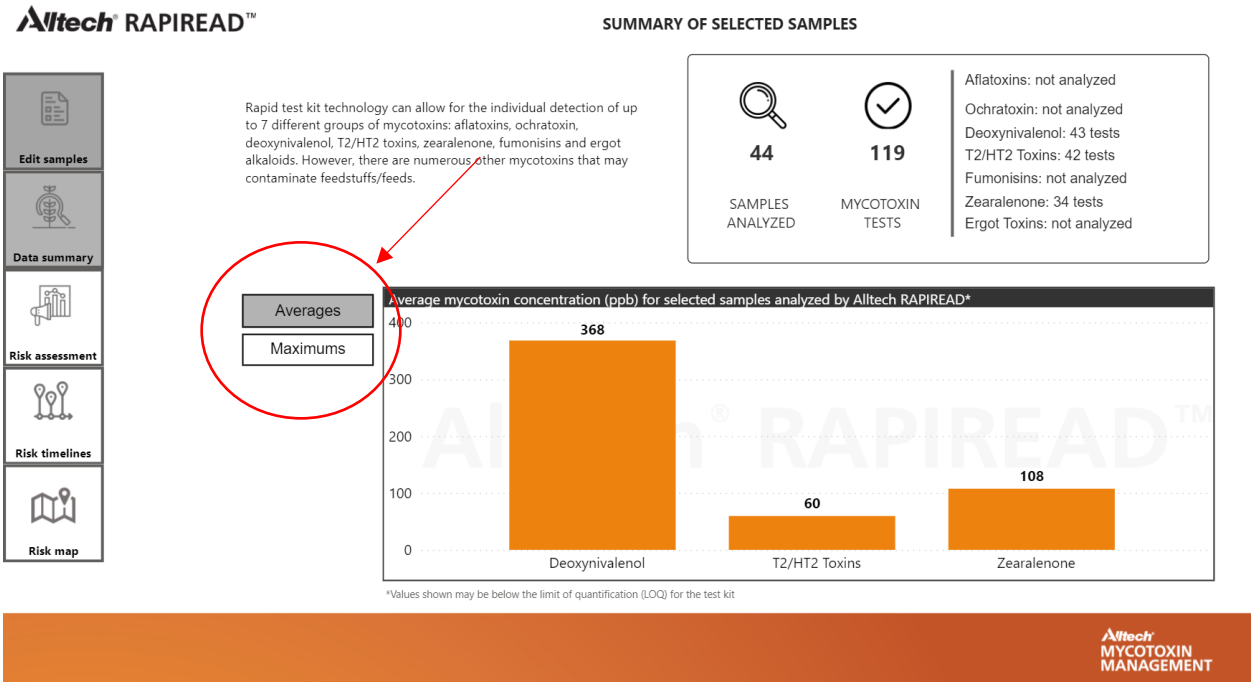


F. Once all selections for the samples are complete, you can then click any of the boxes on the right side of you screen to go to your results.

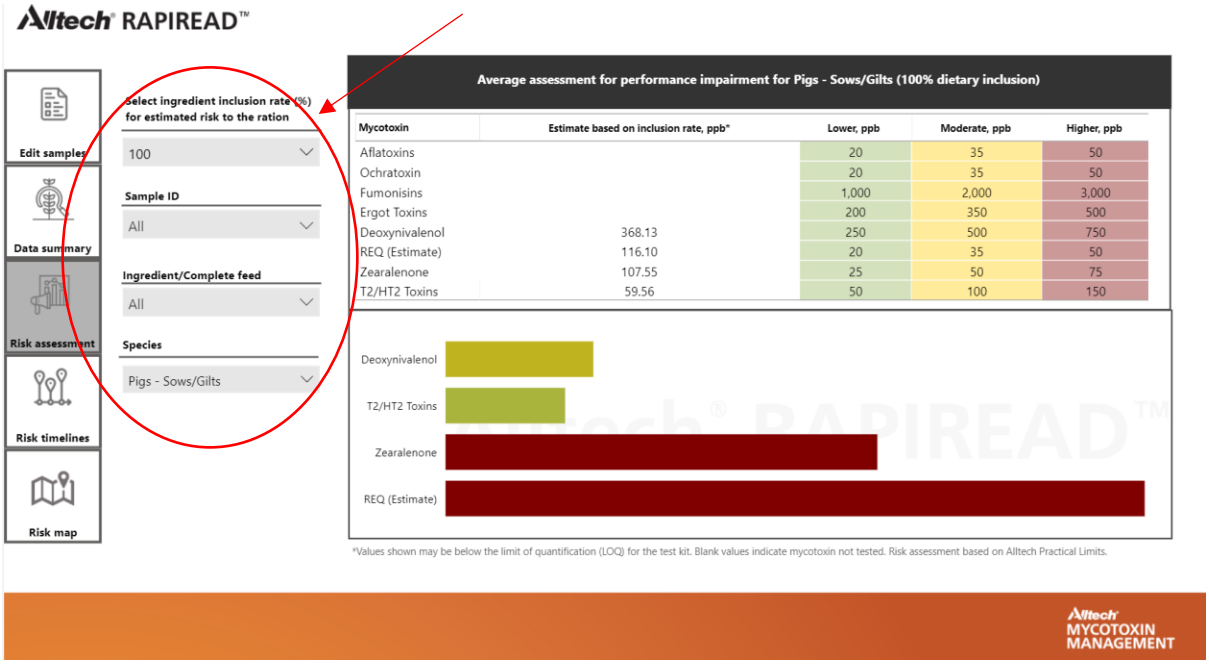
G. There are four options to view results: Data Summary, Risk Assessment, Risk Timelines and a Risk Map. To view different pages, simply click on the different options on the left side of the page. A description of each view is shown below.



Data Summary: Shows the number of samples analyzed and mycotoxins tested, as well as which toxins were tested. There is also a bar chart showing the average mycotoxin concentration for the selected samples or the maximums for each mycotoxin tested. To switch from Averages to Maximums, simply click on the correlating buttons to the left of the bar chart.



Risk Assessment: The Risk Assessment allows you to select the ingredient inclusion rate for the estimated risk to the ration for the samples selected. Simply complete all the drop-down boxes to the left of the chart to view the REQ of samples tested.


Alltech RAPIREAD™
Edit samples
Data summary
Risk assessment
Risk timelines
Risk map
Select ingredient inclusion rate (%) for estimated risk to the ration
100
Sample ID
All
Ingredient/Complete feed
All
Species
Pigs - Sows/Gilts
Average assessment for performance impairment for Pigs - Sows/Gilts (100% dietary inclusion)
Mycotoxin | Estimate based on inclusion rate, ppb* | Lower, ppb | Moderate, ppb | Higher, ppb
Aflatoxins | | 20 | 35 | 50
Ochratoxin | | 20 | 35 | 50
Fumonisins | | 1,000 | 2,000 | 3,000
Ergot Toxins | | 200 | 350 | 500
Deoxynivalenol | 368.13 | 250 | 500 | 750
REQ (Estimate) | 116.10 | 20 | 35 | 50
Zearalenone | 107.55 | 25 | 50 | 75
T2/HT2 Toxins | 59.56 | 50 | 100 | 150
Deoxynivalenol
T2/HT2 Toxins
Zearalenone
REQ (Estimate)
*Values shown may be below the limit of quantification (LOQ) for the test kit. Blank values indicate mycotoxin not tested. Risk assessment based on Alltech Practical Limits.
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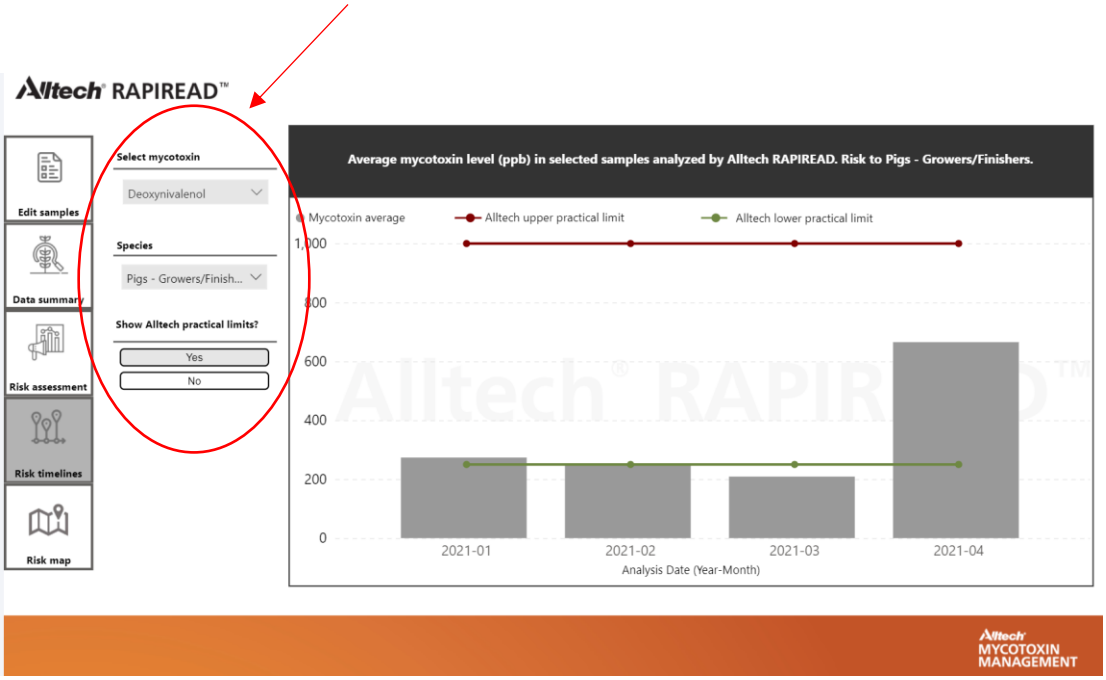
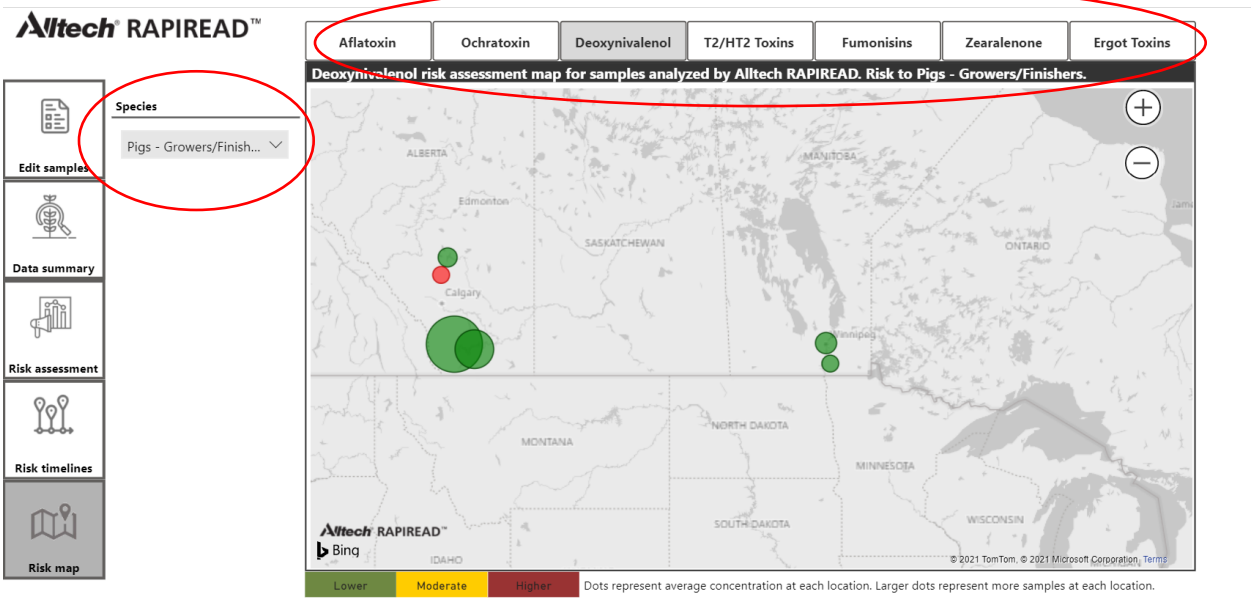
Mycotoxin Risk Timeline: Allows the user to view the risk of each mycotoxin tested over the selected period of time. Simply select the mycotoxin you would like to see the risk for and the species you are feeding to view the risk level for each month. The chart will default to show Alltech's upper and lower practical limits for the selected species. To view the chart without the limits, simply click No under Show Alltech practical limits?



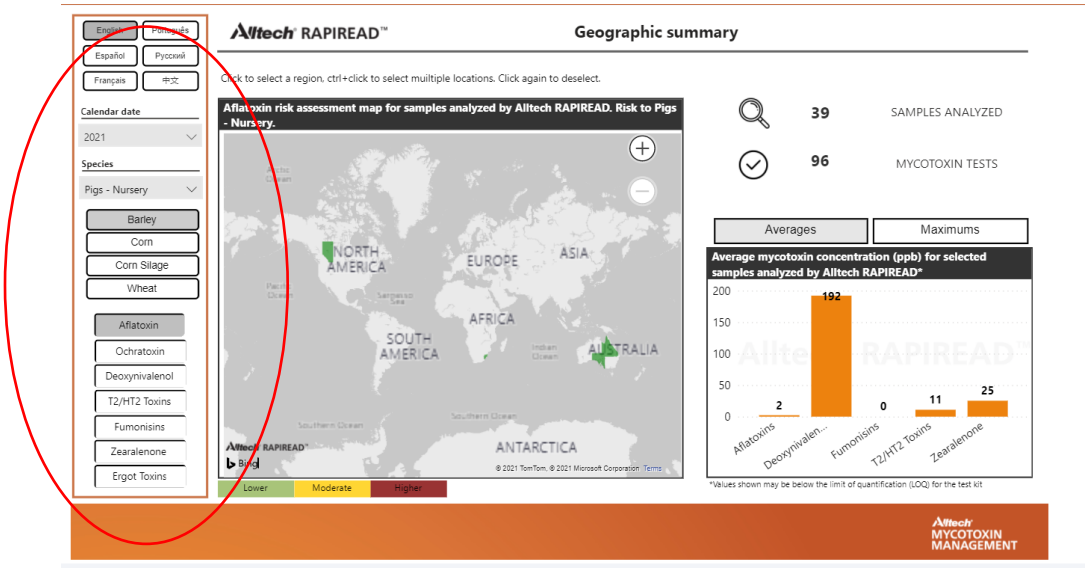
Mycotoxin Risk Maps: This allows you to view your mycotoxin results via an interactive map showing the risk level of samples by location, based on the location entered on the submission form. Simply select the species you are feeding from the dropdown to the left of the map and click which toxin you would like to view on the top of the map.



Viewing Geographic Overview: This view allows users to see multiple function on one screen, including an interactive map, REQ bar chart for the different mycotoxins tested, the number of samples analyzed and mycotoxin tests performed for the calendar year selected, giving users a summary of all samples submitted by every user during the time period selected. These samples are displayed anonymously to ensure sensitive data is not available to all users.

A. On the Home screen, click the Alltech RAPIREAD tab then click Geographical Overview.

B. On the Geographical Summary screen, select your language, then change any of the settings on the left side of the screen to view a different calendar year, species fed, ingredient and mycotoxin tested.

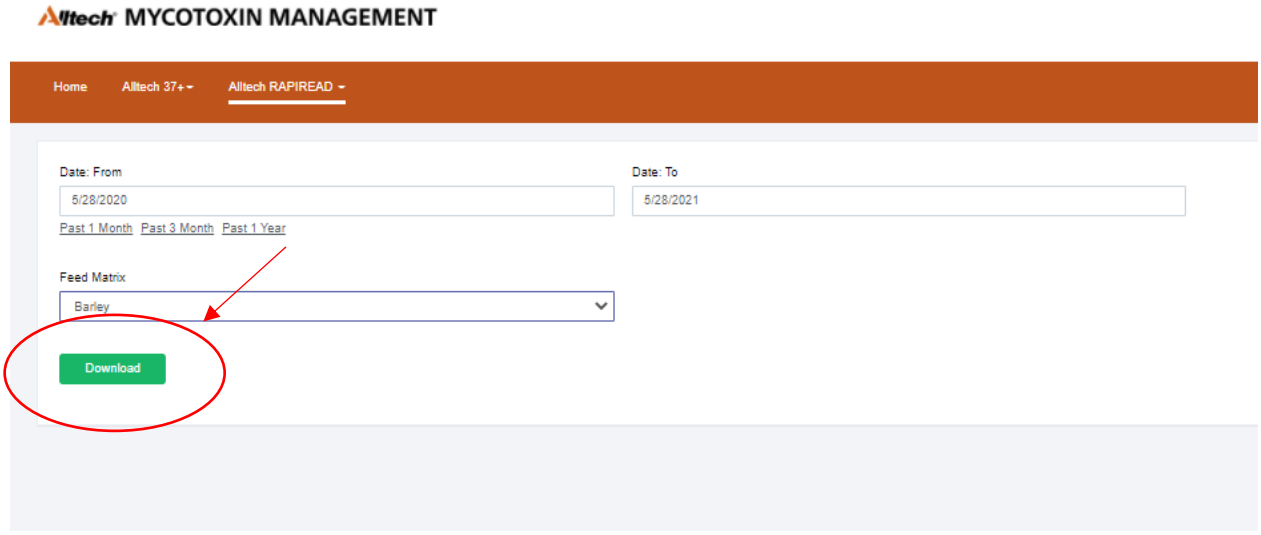


Exporting User Data to an Excel file (Users can only export their own test data)

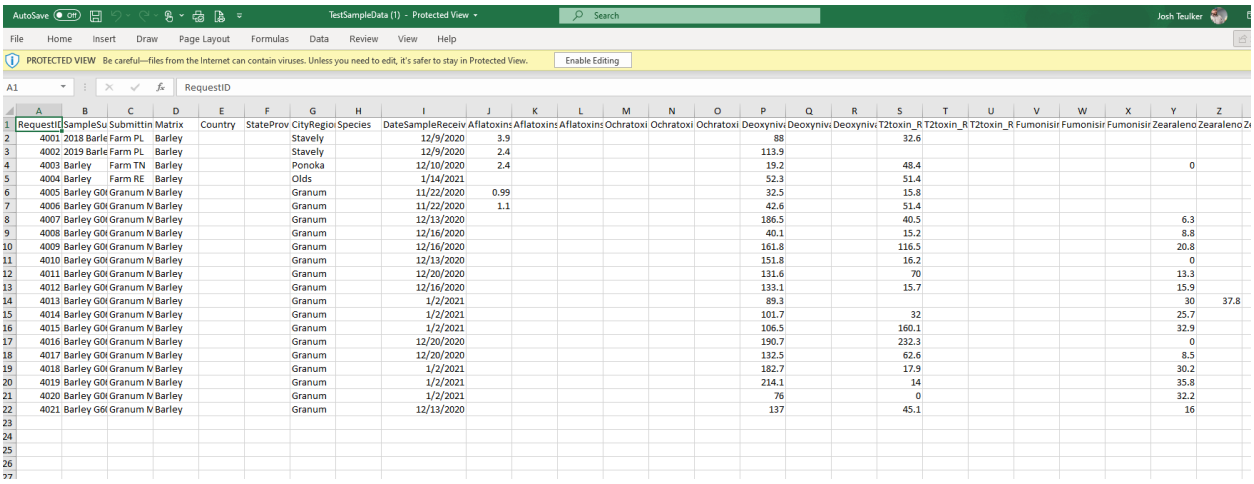
A. On the Home screen, click the Alltech RAPIREAD Tab then click Export Data.

B. Enter in the date range you would like to export and select the Feed Matrix.

C. Click Download



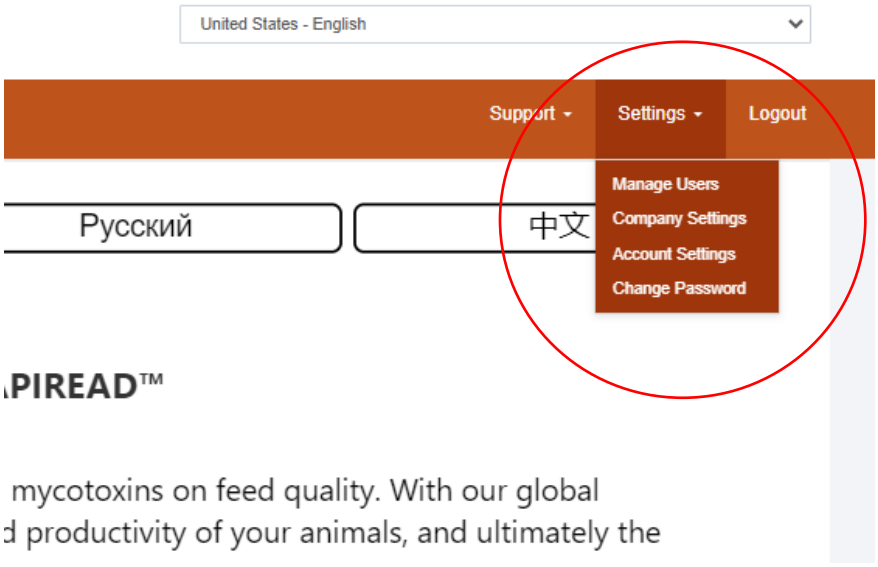
D. The Excel file will begin to download. Once downloading is complete, you can open the file to view your results.



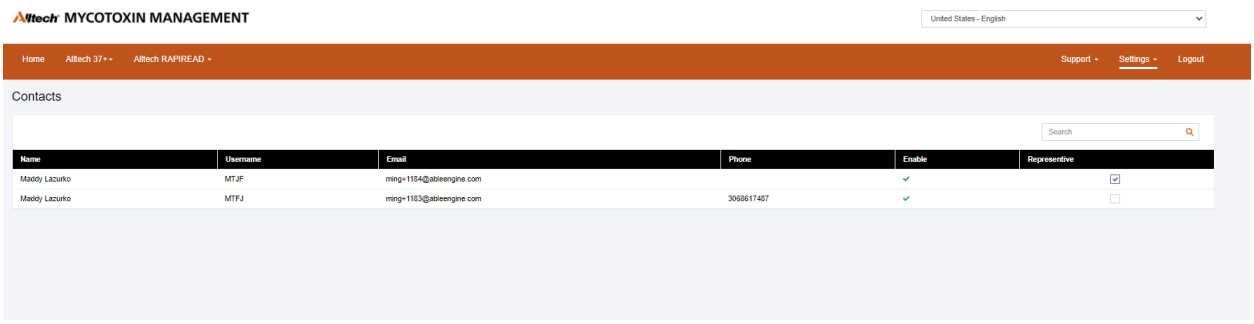
RequestID	SampleSu	Submittin	Matrix	Country	StateProv	CityRegio	Species	DateSampleReceiv	Aflatoxins	Aflatoxins	Aflatoxins	Ochratoxi	Ochratoxi	Ochratoxi	Deoxyniva	Deoxyniva	Deoxyniva	T2toxin_R	T2toxin_R	T2toxin_R	Fumonisir	Fumonisir	Fumonisir	Zearaleno	Zearaleno
4001	2018 Barle	Farm PL	Barley			Stavely		12/9/2020	3.9						88			32.6							
4002	2019 Barle	Farm PL	Barley			Stavely		12/9/2020	2.4						113.9										
4003	Barley	Farm TN	Barley			Ponoka		12/10/2020	2.4						19.2			48.4						0	
4004	Barley	Farm RE	Barley			Olds		1/14/2021							52.3			51.4							
4005	Barley G0	Granum M	Barley			Granum		11/22/2020	0.99						32.5			15.8							
4006	Barley G0	Granum M	Barley			Granum		11/22/2020	1.1						42.6			51.4							
4007	Barley G0	Granum M	Barley			Granum		12/13/2020							186.5			40.5						6.3	
4008	Barley G0	Granum M	Barley			Granum		12/16/2020							40.1			15.2						8.8	
4009	Barley G0	Granum M	Barley			Granum		12/16/2020							161.8			116.5						20.8	
4010	Barley G0	Granum M	Barley			Granum		12/13/2020							151.8			16.2						0	
4011	Barley G0	Granum M	Barley			Granum		12/20/2020							131.6			70						13.3	
4012	Barley G0	Granum M	Barley			Granum		12/16/2020							133.1			15.7						15.9	
4013	Barley G0	Granum M	Barley			Granum		1/2/2021							89.3									30	37.8
4014	Barley G0	Granum M	Barley			Granum		1/2/2021							101.7			32						25.7	
4015	Barley G0	Granum M	Barley			Granum		1/2/2021							106.5			160.1						32.9	
4016	Barley G0	Granum M	Barley			Granum		12/20/2020							190.7			232.3						0	
4017	Barley G0	Granum M	Barley			Granum		12/20/2020							132.5			62.6						8.5	
4018	Barley G0	Granum M	Barley			Granum		1/2/2021							182.7			17.9						30.2	
4019	Barley G0	Granum M	Barley			Granum		1/2/2021							214.1			14						35.8	
4020	Barley G0	Granum M	Barley			Granum		1/2/2021							76			0						32.2	
4021	Barley G6	Granum M	Barley			Granum		12/13/2020							137			45.1						16	

Settings

The Settings tab allows you to Manage Users, Change Company Settings, Edit Account Settings and Change Password. Each function is outlined below.



Manage Users: Allows you to enable and manage the contacts that are associated with the account. To enable or disable an account, simply click on the red X under the enable column to disable or click on the green check to enable. The Representative of the account can enable any account associated with the portal. Contact jteulker@alltech.com to have a Representative assigned to the account if the current Representative cannot be contacted.

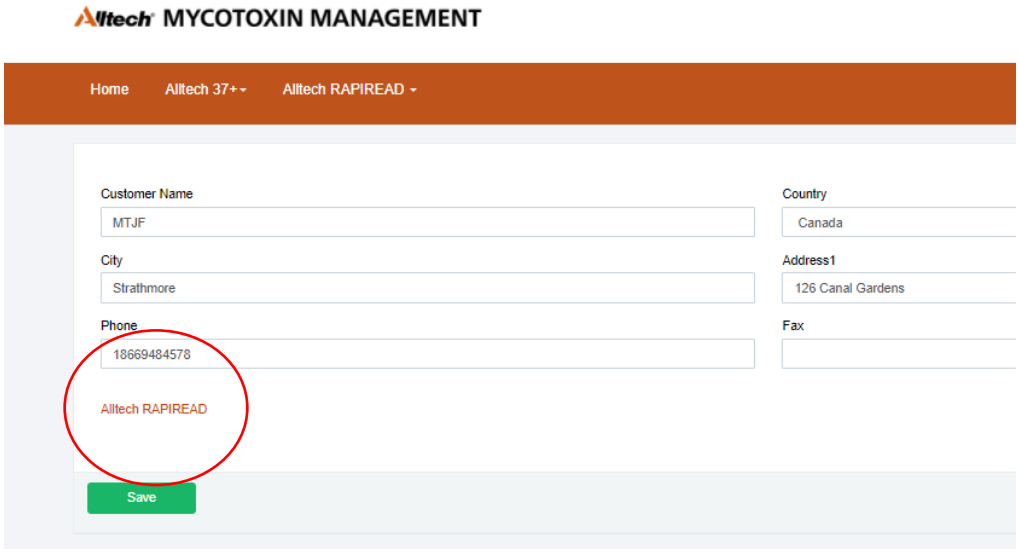


Company Settings: Allows you to make changes to your Name, Address and Phone Number. Under the company setting, you can also default any of your Test Request settings for the Alltech RAPIREAD Mobile App. For example, if a user is always feeding the same species, default the Species Category and Species to that species.

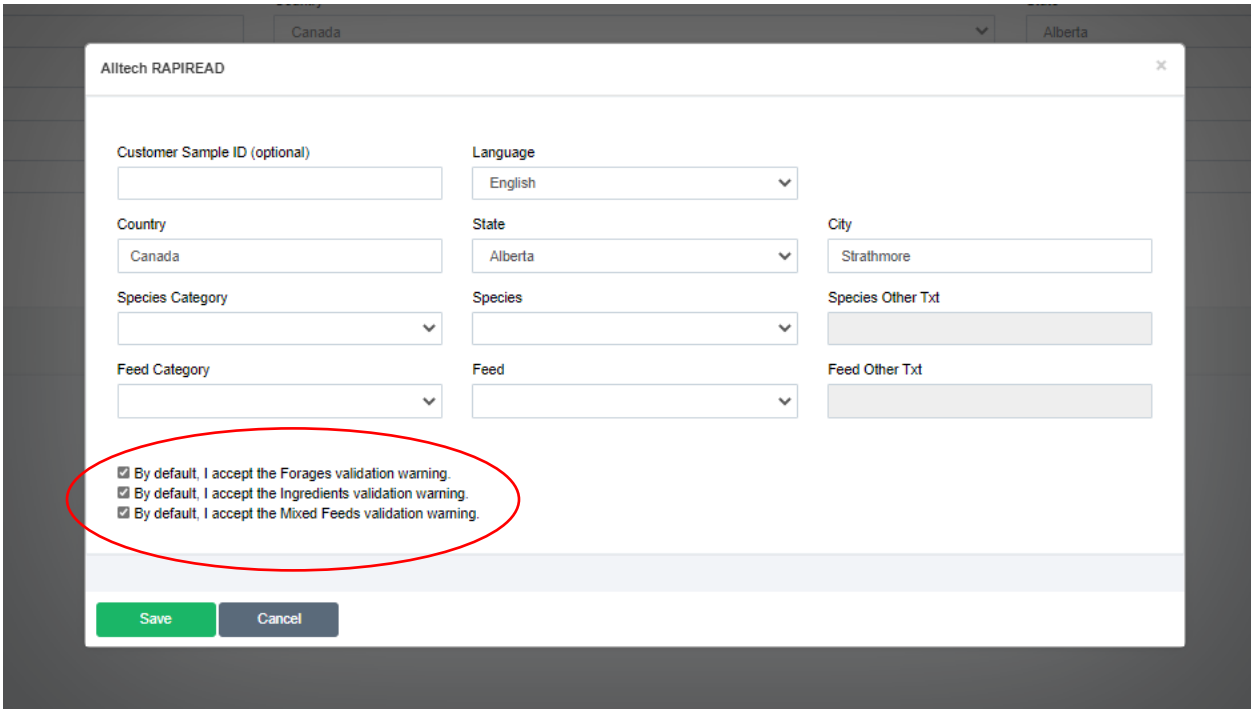
Defaulting the Alltech RAPIREAD Mobile App Test Request

A. Click on the Settings tab in the top right then click Company Settings.

B. On the Company Settings page, click Alltech RAPIREAD in the bottom left corner.



C. In the Alltech RAPIREAD popup, you can then default any of the Test Request form boxes. Ensure you also check the default boxes on the Validation Warnings to prevent the warning from appearing for each test request performed. Once you have filled in the boxes, read and accept the terms and conditions and click Save.

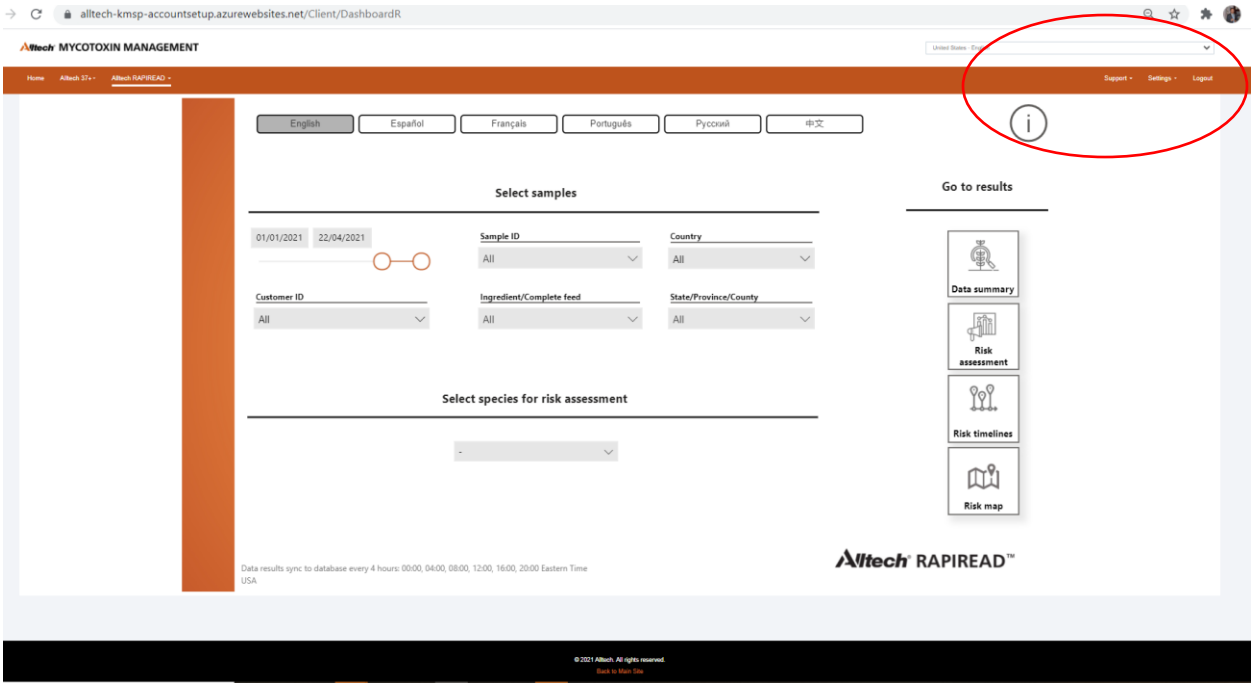


Account Settings: Allows users to change the name and phone number associated with their account.

Change Password: Allows users to change the password associated with their account.

Alltech RAPIREAD support

For answers to any questions regarding the Mycotoxin Management Portal, please use the Support tab on the top right side of the screen. There you can find a list of Frequently Asked Questions or a link to Contact Us directly.



Instructional video and further questions

You can view a short video at this link that outlines the main steps required to submit a mycotoxin test, run the test on the Raptor device and view the results on your portal and Alltech RAPIREAD Mobile App.

If you have further questions on getting set up or operating Alltech RAPIREAD, please contact mycotoxinsupport@alltech.com