QuickCheck™

Check Sample Program - Corn - Aflatoxin

Catalog No. ACC-054-CA *Part #13676*

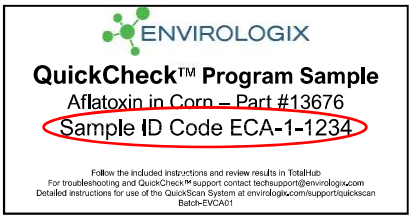
Intended Use

The QuickCheck - Corn - Aflatoxin Check Samples are for use with TotalTox Aflatoxin (catalog # AQ-309-BG). They are intended as a quality assurance measure for equipment and operators. Results over time can give insight into possible sources of error.

Contents of Kit

A mix of twelve (12) blind-coded Aflatoxin-positive QuickCheck corn samples, each with a unique Sample ID code.

Note: You will need the Sample ID code from the bag when entering your results (see example, right). Save the bag until after you're done running the aflatoxin test.



How to Use

1.) Ensure that all components (water for extraction, kit canisters and strips, buffer, QuickCheck sample) are at room temperature. The incubator should be turned on at least 10 minutes prior to testing. Confirm the temperature is set at 22°C.

2.) Ensure that the Multi-Matrix Barcode Card (MMBC) for your strips' lot number has been scanned. (MG1 is required for QuickCheck sample testing).

3.) Open the sample bag and weigh out 25g of the ground corn sample into a hard-walled container (part number 20-0047 or equivalent). Make sure to keep the sample bag to reference the Sample ID code for the sample.

4.) Extract, clarify, run, and read the QuickCheck sample:

a. Add 1 EB17 pouch and 75 mL of water to the sample in the container.

b. Cap the conainer and wet sample immediately by vigorously shaking for 10 seconds by hand. If needed, shake the sample against the palm of your other hand or a hard surface to loosen up any dry sample areas. **Immediately** proceed to the next shaking step.

c. Shake the sample by either mechanical shaker or hand shaking (see Table A for options).

d. Clarify the sample by either centrifuging or filtering (see Table A for options). **Keep the clarified extract until you've received confirmation that your result is in range.**

e. Add 100 µL of DB5 to the Reaction Tube (discard tip).

f. Add 100 µL clarified extract to the Reaction Tube.

g. Mix the diluted sample by pipetting up/down 5 times, discard tip.

h. Place the Reaction Tube in the 22°C incubator; wait 2 minutes. **Note:** tube acclimation step is only required if the temperature of the testing environment is unknown or outside of 20 - 24°C (68 - 75°F).

i. Add test strip to tube, arrows down, wait **4 minutes** (run time).

j. Type in the Sample ID located on the sample's bag into the "Sample ID" field on the QuickScan.

k. Type in the operator's name in the "Operator" field on the QuickScan. **Note: Operator must be consistent with their name when entering this information into the "Operator" field.** Enter any other information required by your quality management system.

l. After the 4 minute run time in step (i) has expired, immediately cut strips at the top of the arrow tape (discard bottom pads).

m. Insert strip into QuickScan Reader. Click "Read Test" button.

n. When prompted, select **MG1** for the Matrix Group.

o. Save the test results by exiting the results screen. The results will automatically be uploaded into TotalHub and can be viewed in the QuickCheck dashboard.

5.) Log into TotalHub and view the QuickCheck report builder and dashboard to view results. You will be able to see if your result is either within or out of the acceptable range.

6.) If you receive a result that is out of the acceptable range, check the following:

a.) Confirm that your incubator is set at 22°C.

b.) Confirm that the strips, buffer and sample (sample extract) are at room temperature 68-75°F (20-24°C).

c.) Run a CleanTest. If any bad clusters are detected, clean the reader and re-run the Clean Test.

d.) Run the CheckComb; confirm that all results indicate 'OK.'

If those four items are within specifications, please review the procedural video and instructions for your aflatoxin test kit to ensure you are executing all steps as instructed. www.envirologix.com/quickchecksupport. If no procedural steps are amiss, try using a different pipette to repeat the testing (utilizing the clarified extract from step 4d).

If all items in Step 6 have been ruled out and the result is still 'out of the acceptable range' noted above, contact EnviroLogix for additional troubleshooting support (techsupport@envirologix.com).

Table A: Shaking and Clarification Methods

Shaking Methods
Shaker Table: Mix at highest speed (≥300 rpm) for 1 minute.
By Hand: Shake vigorously for 2 minutes.
Clarification Methods
Centrifugation: Fill a microcentrifuge tube with extract and centrifuge for 30 seconds at 2000 x *g* (*not rpm*). The clear layer is the extract that will be used in the testing.
Filtering: Add an approved coffee filter (ACC-083) to a clean vessel and pour extract into the filter, allow the sample to sit for no more than 2 minutes. Discard the filter. Swirl the filtered extract prior to use.

Use of the QuickScan System

Detailed instructions for use of the QuickScan System are supplied with each unit, and can also be found at envirologix.com/support/quickscan .

Kit Storage

This QuickCheck Kit should be stored refrigerated. Note the shelf life on the kit box. Prolonged exposure to high temperatures may adversely affect the test results.

Precautions and Notes

- Follow your organization's safety policy when it comes to handling contaminated materials. Take caution while storing and handling the samples and ensure that the materials are not ingested.
- The check samples within the QuickCheck kit are ISO 17034 compliant, processed under ISO 17034 standards, and quality checked using multiple methods at multiple laboratories.
- EB17-extracted matrices require hard-walled containers. Ensure that the container allows enough head room for the liquid to move forcefully when shaken vigorously.
- Strips must be read wet promptly at the 4-minute mark.
- The Aflatoxin assay has been optimized for use with the protocols provided in the kit. Deviation from these protocols may invalidate the results of the test. Room-temperature components, proper and thorough mixing, and accurate pipetting are essential to accurate results.
- Protect all components from hot or cold extremes of temperature when not in use. Do not leave in direct sunlight or in vehicle.
- Observe any applicable regulations when disposing of samples and extracts.
- If you are not set up with the TotalHub data portal, please contact your account representative or our Customer Service team to begin onboarding.

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