



CULTIVATING SUCCESS THROUGH SCIENCE™

For more than 20 years, VICAM has been the global provider of choice for next-generation food safety technology and rapid mycotoxin test solutions.

The goal of securing the world's food supply requires knowledge, cooperation, and collaboration. To advance that objective, VICAM works closely with government regulatory agencies, international standards bodies, major food industry laboratories, and leading research institutions around the world. With a global scientific and distribution presence, VICAM has access to the latest research advances, industry expertise, and regulatory information needed to design solutions that maximize food safety and quality at every stage of the global food supply chain.

As the trusted partner of the agricultural industry, VICAM is proud to consistently deliver the superior products, responsive service, and individualized support for your industry-specific goals.

AFLA-V AQUA EUROPE KIT	176003783
Afla-V AQUA Europe Kit Contents	
Afla-V Strip Tests	100000247
Micro-Pipette Tips, 100 μL	.600001109
Filter Paper	.600001522
Extraction Tubes, 40 mL	.600000827
Afla-V AQUA Europe Barcode	
Required But Not Included	
AQUA Premix Solution	100000339
OR	
AQUA Solution A	100000336
AQUA Solution B	100000337
Vertu Mycotoxin BEQ, 110V	.176002078
Vertu Mycotoxin BEQ, 220V	176002079
EQUIPMENT PACKAGE CONTENTS	
Vertu Reader, 110V & 220V	725000574
Vertu Bar-Code Scanner	
Printer, 110V & 220V	
Vortex Mixer	
Digital Timer	
Micro-Pipettor, 100 µL	
Filter Funnel, 65 mm (4 pack)	
Strip Test Vial Rack	
Graduated Cylinder, 25 mL	600000537
Vertu Basic Instruction Guide	715002426

STORAGE AND SAMPLING

STORAGE RECOMMENDATIONS

Strip tests must be refrigerated. Store at 4 °-8 °C (39 °-46 °F).

Strip test and sample extract should be at room temperature of between 20 °C (68 °F) and 25 °C (77 °F) before use. After removing strips from refrigerator, leave strips at room temperature for 20 minutes or longer to equilibrate.

Use in accordance with VICAM's testing procedure. To be used for testing food products only. Not to be ingested or applied to the skin.

SAMPLING

Mycotoxins tend to occur in scattered locations in large grain or nut loads and may be detectable in only a small percentage of kernels in a lot. The uneven distribution of contaminated kernels can cause test results to vary significantly from sample to sample. It is therefore essential to take a representative sample from the lot. Product must be collected from different locations in a static lot based on a probing pattern. The probe must draw from the top to the bottom of the lot. The samples obtained from the probes must be ground and mixed well and a subsample taken for testing. Contact your local regulatory authorities or VICAM for more information on sampling.

UNDERSTANDING AND SCANNING THE BARCODE



The information contained in each barcode includes the test name, test lot number, method of scanning, parameters of measure, and algorithm for result calculation. This information is specific to each lot of strip test cassettes and varies from barcode to barcode ensuring the accuracy, precision, and reliability of each test.

The lot number and test type displayed on the Vertu reader must match the label information on the strip test package. If the reader has just been turned on, confirm that "Measure" is selected on the display screen and then press the center button on the keypad. If the reader has already run a test, use the arrow keys to select "NT" and then press the center button.

When the scanner is ready to read the barcode, the reader will beep 3 times. Press the yellow trigger on the barcode scanner and aim the laser beam point at the barcode for the test you are running. Make sure the red + in the center of the barcode scanner is positioned in the center of the barcode. When scanning the barcode, it may be necessary to adjust the distance between the scanner and the barcode while pressing the yellow trigger. When the barcode is scanned, the reader will beep once and the display screen will show the correct information.

PREPARATION AND FEATURES

PREPARATION OF PREMIXED AQUEOUS EXTRACTION SOLUTION

Water plus AQUA Solution A and AQUA Solution B can be added individually to each sample when running one sample at a time. Alternatively a premixed Aqueous solution containing all three reagents (water, AQUA Solution A and AQUA Solution B) can be made in advance and the one solution added to the sample.

To make 900 mL of AQUA Premix Solution, combine the following reagents in a glass or plastic container in the order listed below:

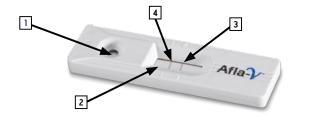
- 1. 540 mL purified water
- 2. 180 mL AQUA Solution A (one bottle VICAM p/n 100000336)
- 3. 180 mL AQUA Solution B (one bottle VICAM p/n 100000337)

Mix well.

Alternatively, AQUA Premix Solution (900 mL) can also be purchased from VICAM (p/n 100000339).

PRODUCT FEATURES

Afla-V Strip Test Cassette



- 1 Sample Well
- 2 Results Window
- 3 Control Line
- 4 Test Line

PIPETTE TERMS

Aspirate – to draw the sample up into the pipette tip **Blow out** – to empty the tip completely

PIPETTING TECHNIQUES

- 1. Press the operating button to the first stop.
- 2. Dip the tip into the solution and slowly release the operating button to "wet" the tip.
- 3. Press the operating button to the first stop again and slowly release the operating button. Wait 1–2 seconds and then withdraw the tip from the liquid, touching it against the edge of the reservoir to remove excess liquid.
- 4. Dispense the liquid into the receiving vessel by gently pressing the operating button to the first stop and then press the operating button to the second stop. This action will empty the tip. Remove the tip from the vessel, sliding it up the wall of the vessel.
- 5. Release the operating button to the "Ready" position.
- 6. Please consult the chart for visual instructions on operating the pipette. Be sure to always hold the pipette in a vertical position.

PIPETTE POSITIONS

1. Press pipette button down to first stop and place into liquid.

2. With tip in liquid, slowly aspirate by letting button return to "Ready" position

3. Dispense liquid into other vessel by pressing button to first stop and then to second stop. This will blow out the tip.

4. Lift the tip out of liquid, and blow out any remaining liquid. Return button to the "Ready" position.







AFLA-V AQUA PROCEDURE FOR CORN AND SOY

SAMPLE TYPE

Corn and soy

DETECTION INSTRUMENT

Vertu Reader

SET UP

- 1. Turn on the Vertu reader. Using the arrow keys, move the cursor to "measure" on the display, then gently press the center key. You will then hear 3 beeps.
- 2. Calibrate the Vertu reader daily by scanning in the Afla-V AQUA Europe bar code for corn for the lot of strips being used. The Afla-V AQUA Europe bar code will have an "ECQ" designation. For example: Afla 035-008**ECQ**.0. You will hear a beep when the bar code is accepted. Make sure the lot number displayed on the reader is the same lot number as the strips.

SAMPLE EXTRACTION

- 1. Weigh 5 g ground sample into an extraction tube.
- Add to the tube 25 mL AQUA Premix Solution.
 (Alternatively, 15 mL of purified water, then 5 mL of AQUA Solution A and 5 mL of AQUA Solution B can be added to the sample.)
- 3. Cap the tube and vortex at high speed for 2 minutes.
- 4. Filter the extract into a clean extraction tube.

STRIP TEST

- 1. Transfer $100 \, \mu L$ of the filtered solution to the circular opening on the Afla-V strip at a rate of about 1 drop per second. Be sure to hold the pipette vertically. The pipette tip can touch the bottom of cassette.
- 2. Allow the strip test to develop for 5 minutes.
- 3. Insert the Afla-V strip test into the Vertu reader (circular opening side in first).
- 4. Press the center key on the reader to take a reading.
- 5. To print the result, move the cursor to "P" in the upper left hand corner of the display using the arrow keys then press the center key.
- 6. To run the next sample, move the cursor to "NT" using the arrow keys and press the center key. If you are using the same lot of strips, you are now ready to insert the next sample. If you are using a different lot of strips, you will need to scan in the new bar code.

Assay range: 0–40 ppb Limit of detection: 2 ppb



NOTES

- Press the center button on the keypad quickly and gently to read samples.
 Pressing the center button on the keypad long and hard will turn the instrument off.
- 2. Purified water can be reverse osmosis purified, distilled or deionized water.
- 3. All strips should have a visible control line.
- Do not run test in a location where air from an air conditioner, heater, or window will blow directly on strips.







KEY LOCATIONS

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