

VICAM's AflaCHECK is a qualitative one-step test kit for the detection of aflatoxin. Aflatoxin is a group 1 carcinogen proven to cause cancer in humans. In the United States and abroad, aflatoxin levels in food and grain are subject to strict regulations. AflaCHECK uses highly specific reactions between antibodies and aflatoxin to detect the presence of aflatoxin at two different cutoff levels: 10 ppb or 20 ppb, depending on the protocol followed.

BENEFITS

FAST - Results in as little as 3 minutes

SIMPLE - No special training or equipment required

DURABLE - Long shelf life, no refrigeration required

ECONOMICAL - Inexpensive first step in your testing protocol

VERSATILE - Choice of two cutoff procedures; 10 ppb and 20 ppb

SAMPLE EXTRACTION

1. Weigh out 5 g of sample and add to a 40 ml Extraction Tube.
2. Measure 10 ml of 70% Methanol with a 10 ml graduated cylinder, and pour it into the 40 ml extraction tube.
3. Cover the 40 ml extraction tube and shake the mixture by hand for 1 minute.
4. Allow the sample solution to settle for 3 minutes.

AFLACHECK PROCEDURE FOR 10ppb

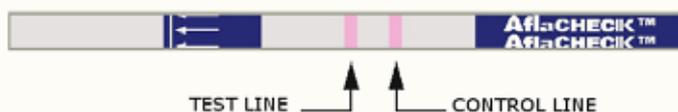
1. Place a test strip tube in the paper rack. When the kit first arrives, the paper rack will be nestled upside-down inside the box.
2. Add 250 μ L of distilled water to the strip test dilution tube with a 250 μ L strip test pipettor.*
3. Transfer 250 μ L of sample extract to the strip test dilution tube using a new strip test pipettor.*
4. Mix solution by capping the strip test dilution tube and shaking by hand.
5. Insert an AflaCHECK test strip (arrows pointing down) into the strip test tube and allow the test to develop.
6. A negative result (less than 10 ppb) can be determined once you can see both a test line and a control line. This can occur in as little time as 3 minutes.
5. To check for a positive result (greater than or equal to 10 ppb), allow the AflaCHECK strip test to develop in the strip test dilution tube for at least 5 minutes. If after 5 minutes no test line appears then the results can be interpreted as positive.

INTERPRETATION OF RESULTS FOR 10 PPB CUTOFF PROCEDURE

Negative Results:

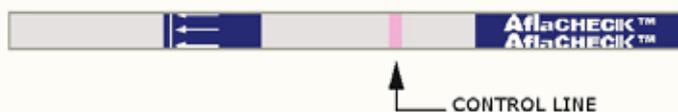
Sample contains <10 ppb of aflatoxin.

(Any visible test line indicates a negative result.)



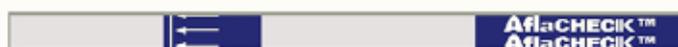
Positive Results:

Sample contains ≥ 20 ppb of aflatoxin.



Invalid Results:

Test is invalid. Repeat with new Test Strip.



FEEDWORKS
"Performance through Science"

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SAMPLE EXTRACTION

1. Weigh out 5 g of sample and add to a 40 ml extraction tube.
2. Measure 20 ml of 70% Methanol with a 10 ml graduated cylinder, and pour it into the 40 ml extraction tube.
3. Cover the 40 ml extraction tube and shake the mixture by hand for 1 minute.
4. Allow the sample solution to settle for 3 minutes.

TEST STRIP PIPETTOR USE (STEP 2 & 3 FOR 10 PPB & 20 PPB)

1. Squeeze the top bulb of the strip test pipettor.
2. Draw up enough liquid to fill the barrel of the pipettor and let one or two drops of liquid spill over into the lower bulb.
3. At this point, the barrel of the pipettor should be completely full of liquid.
4. To ensure accurate measurement, be careful not to let any liquid drip out pipettor before dispensing.
5. Squeeze the upper bulb to dispense the liquid.
6. Squeeze all of the liquid out of the barrel when dispensing.

AflaCHECK Test Kits

Contents:

25 AflaCHECK test strips
50 strip test pipettors
25 strip test dilution tubes
1 paper strip test rack
1 AflaCHECK instruction manual

Store at room temperature (15 - 30 deg C).
Test strip and sample extract should be at room temperature before use.
For use in accordance with VICAM testing procedure.
For testing food products only.
Not to be ingested or applied to skin.

AFLACHECK PROCEDURE FOR 20ppb

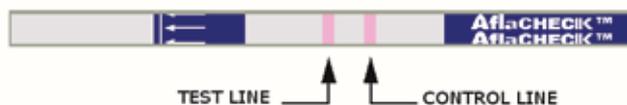
1. Place a test strip tube in the paper rack. When the kit first arrives, the paper rack will be nestled upside-down inside the box.
2. Add 250 µL of distilled water to the strip test dilution tube with a 250 µL strip test pipettor.*
3. Transfer 250 µL of sample extract to the strip test dilution tube using a new strip test pipettor.*
4. Mix solution by capping the strip test dilution tube and shaking by hand.
5. Insert an AflaCHECK test strip (arrows pointing down) into the strip test tube and allow the test to develop.
6. A negative result (less than 20 ppb) can be determined once you can see both a test line and a control line. This can occur in as little time as 3 minutes.
5. To check for a positive result (greater than or equal to 20 ppb), allow the AflaCHECK strip test to develop in the strip test dilution tube for at least 5 minutes. If after 5 minutes no test line appears then the results can be interpreted as positive.

INTERPRETATION OF RESULTS FOR 20 PPB CUTOFF PROCEDURE

Negative Results:

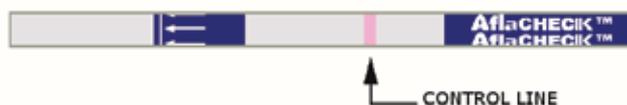
Sample contains <20ppb of aflatoxin.

(Any visible test line indicates a negative result.)



Positive Results:

Sample contains ≥20ppb of aflatoxin.



Invalid Results:

Test is invalid. Repeat with new Test Strip.



Liability:

Only individuals with appropriate training should perform the test described in this instruction manual. Materials should be handled and disposed of properly. The analytical methods described herein have been developed by Waters to be used exclusively with the reagents in this test. The user assumes all risk in using AflaCHECK analytical procedures and products. Waters makes no warranty of any kind, express or implied, other than that AflaCHECK products conform to Waters' printed specifications and quality control standards. Waters will at its option repair or replace any product or part thereof which proves to be defective in workmanship or material. Waters' undertaking to repair or replace such products is exclusive and is in lieu of all warranties whether written, oral expressed, or implied including any implied warranty of merchantability or fitness for particular purpose. Waters shall have no liability for anticipated or lost profits or any loss, inconvenience or damage whether direct, incidental, consequential or otherwise, to person or property, or for strict liability or negligence arising from or in conjunction with the use of these assay procedures or AflaCHECK product. The foregoing notwithstanding, protocols and other products developed by Waters are periodically improved and revised in order to maximise reliability and optimise customer use and satisfaction. When an improved, new or substitute version of a protocol or product is available, Waters shall not be held liable or responsible for any earlier protocol or product, even if use of earlier protocol or product be within the expiration date. Please inform yourself about any new protocols by either email, faxing or phoning your local distributor. Waters shall not be liable or responsible for any unsatisfactory or faulty results or performance involving the use of Waters protocols or products if the testing or sampling in question is not conducted properly. The customer is solely and fully responsible for educating oneself about the proper testing and sampling procedures using Waters protocols and products.