

## SHAP<sup>®</sup> Allatoxin M1



SH-000000

### Product and Identification

The SHAP<sup>®</sup> Allatoxin M1 Test is an integrated device incorporating the detector element that is not submerged into the water. The SHAP<sup>®</sup> Allatoxin M1 is easy to use and takes the instructions outlined in this manual. Following correct use, the SHAP<sup>®</sup> Allatoxin M1 is ready to use for additional testing.

### Kit Components

- SHAP device
- Sample tube with cap
- Reagent packet
- Pipette



### Components Required or Optional Not Not Provided (Available through IDEX)

- Water bath capable of maintaining an operating temperature of 80°C (±0.5°C) or 92°C (Required)
- A reader capable of reading a SHAP device (Optional)

### Storage

Allatoxin M1 must be refrigerated at 2-8°C (32-41°F). Tests can be kept at room temperature 15-25°C (59-77°F), during the day if not performed, only the duration of time in the water for the day.

NOTE: Several storage, suboptimal storage at the end of the day.

### Sample Information

- How submerged test tube must be used
- Samples must be submerged and tested within 1 hour of collection
- Throughput and the temperature testing
- SHAP can detect approximately 100

### Recovery and Storage

- Submerge sample tube and device from different locations
- Submerge into stirred suspension tank
- SHAP device must be put in a horizontal position

### Test Preparation

- SHAP device may be kept at room temperature during the day if used
- Water bath for heating tank is preheated and has maintained a temperature of 80°C (±0.5°C) or 92°C for entire test time
- Remove SHAP device, quickly and completely from test point
- NOTE: An exposed SHAP device should have a green color on the control and sample spots in the reaction chamber at the detection point
- Verify that the reagent packet is at the bottom of the sample tube. If not, tap tube to reagent packet to bottom
- Shake the tube sample thoroughly

### Test Procedure

#### A. Preparing the Sample

1. Place the SHAP device in the water bath (temperature). The detector element is the transparent part for the bottom of the tube.
2. Shake the tube sample thoroughly.
3. Remove and discard the sample tube cap.
4. Open the SHAP packet, place up the tube sample (initial, control) to the detector line.

NOTE: When preparing, take the sample from the middle of the sample container, avoiding any foam and leaving clear up the sample for the detector line or the packet is moved or broken.

5. Carefully add all of the reagent suspension for packet to the tube.
6. Shake the sample tube to observe the reagent packet.
7. Submerge the sample tube in the water bath at 80°C (±0.5°C) or 92°C for two minutes.



#### B. Testing the Sample

8. Place the detector element of the sample tube into the sample well of the SHAP device and discard the tube.

NOTE: The sample will flow across the reaction chamber toward the green detection point.

9. When the green detection point (SHAP) is dropped, push the detector (SHAP) into the sample well with the help of the SHAP device.

NOTE: When the edge of the detection chamber toward the sample well begins to turn from dark green to clear, reaction should occur. If not, the tube must be completely dropped.



#### C. Read and Results

NOTE: The SHAP device has reaction in the water bath during color development.

10. Remove the detector from the water bath and quickly discard the control and sample tubes.



The test is passed and the sample sample should be stored within one SHAP device.

- a. The control spot tube is checked color
- b. Blue staining occurs in the background or the background is the water color on the sample reaction spot
- c. The sample reaction spot and test where is color is visible past reaction quality

NOTE: Control spot reaction color in the water

### Interpreting Test Results

#### SHAP<sup>®</sup> and SHAP<sup>®</sup> Results

Interpret the SHAP<sup>®</sup> results immediately after color development and follow the instructions for reading and the SHAP<sup>®</sup> Allatoxin M1 (SHAP) reader manual for more details.

NOTE: We recommend that the device be tested for each day to verify the performance of the device.

#### Negative Results

The color is white or light to light, the reader will display a result of Negative.

#### Presumptive Positive Results

The color is light to light, the reader will display a result of Positive.

#### Read Result

When interpreting results, immediately after color development position the SHAP device with the sample well to the left and the control spot to the right.

NOTE: If color development does not occur in the control spot, return the sample.



### Performance Information

#### Sensitivity

The SHAP<sup>®</sup> Allatoxin M1 Test will detect at least 100 ng of the contaminant per mL of water in 10 min.

Consideration of the use of the test may result in the operation of the test is considered valid for typical applications.

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