

**AFLATOXINS B1 RAPID TEST STRIP
MANUAL**

Aflatoxins B1 Rapid Test Strip

Catalogue Number. IP100111

Brief

This product is used for testing Aflatoxins B1 in grain, feed, peanut and edible oil qualitatively, the whole test procedure only need 10-15min, easy to operate with high sensitivity.

Principle

The Aflatoxins B1 rapid test dipstick is based on competitive inhibition immuno-chromatographic principle. In the flow process, Aflatoxins B1 in the sample combined with Aflatoxins B1 specific colloidal gold-labeled monoclonal antibody, Inhibit the combination between antibody and AFB1 -BSA conjugate on Test line of NC membrane, lead to the color change of Test line.

When the sample has no Aflatoxins B1 residue or concentration lower than detection limit, T line is darker than or has same color with C line. when the concentration is equal to or higher than detection limit, T line is lighter than C line obviously or T line is invisible. No matter whether there is Aflatoxins B1 residue in sample, C line will appear, it means the test is valid.

Technical specifications

Specifications: 8 dipsticks/bottle, 12 bottles/box

Detection limit: Honey: ng/g or ppb

Sample	Detection limit	Sample	Detection limit
Rice	3-5ppb	Peanut	3-5ppb
Wheat	3-5ppb	Soybean	3-5ppb
Corn	3-5ppb	Wheat bran	20-30ppb
Regular feed	5-8ppb	Rice bran	20-30ppb
DDGS	20-30ppb	Green fodder	20-30ppb
Soybean meal	10-15ppb	Edible oil	5-20ppb

Components

1	AFB1 test dipsticks	8 dipsticks/bottle
2	Red powder micro-wells	8 micro-wells/bottle
3	Manual	1 piece
4	Sample extracting buffer	300ml

Sample preparation

- a) **A. Grain: rice, wheat, corn, sorghum**
- B. Feed: regular feed, DDGS, soybean meal**
- C. Beans: peanut, soybean**

Weigh crushed sample 1 ± 0.05 g into 15ml centrifuge tube, add 3ml Sample extracting buffer, shake vigorously by hand or Vortex for 3 min, centrifuge at 4000r/min at room temperature for 10min, Take up-layer clear liquid to test.

b) Special sample (sample is highly absorbent)

Wheat bran, rice bran, green fodder

Weigh crushed sample 1 ± 0.05 g into 15ml centrifuge tube, add 10ml Sample extracting buffer, shake vigorously by hand or Vortex for 3 min, centrifuge at 4000r/min at room temperature for 10min, Take up-layer clear liquid to test.

c) Edible oil

Use Pipette to take 200ul sample into 50ml or 15ml centrifuge tube, add Sample extracting buffer(Quantity as following tablet), shake vigorously by hand or Vortex for 3 min,take sample to test.

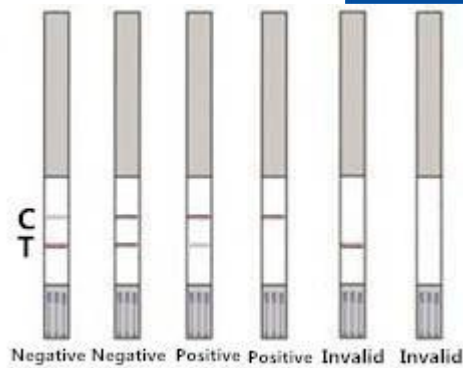
Detection limit (ppb)	5	10	15	20
Sample extracting buffer (ml)	2ml	4ml	6ml	8ml

Operation procedures

1. Read the instruction carefully before use. Return test dipsticks and sample into room temperature.
2. Take bottles needed from the kit package, take out required micro-wells and dipsticks, making proper marks. Please use these test dipsticks within 1h. Seal the cap of the bottles, avoid moisture.
3. Take 200ul of the test samples into the micro-wells, then repeatedly absorb for 5 times, mix the sample with the reagent in the micro-wells completely until no solid judge by eyes (this is a very important step).
4. Incubate for 3min at room temperature(20-25°C), then insert the test dipsticks into the micro-wells with the "MAX" end fully dipped in to the mixture solution.
5. Insert the test dipsticks into micro-wells for 5-8min then read the result, it is invalid in other time.

Test Result Interpretation

1. **Negative:** T line is darker than or has same color with C line. It means there is no Aflatoxins B1 residue in sample or the residue is lower than detection limit.
2. **Positive:** T line is obviously lighter than T line or T line is invisible. It means the Aflatoxins B1 residue is higher than or equal to detection limit.
3. **Invalidation:** C line isn't seen wine red. It means the test strip is out of efficacy, out of date or improper operation. Please run the test again using another package. If the invalid tests keep happening, please contact the local distributor



Specificity

Test 500ppb of Tetracyclines, Chloramphenicol, Sulfonamides etc., the result is Negative.

Precautions

1. The test dipsticks can be used only once at room temperature, do not use test dipsticks out of expiry date.
2. Please seal the bottle after taking out required test dipsticks. If can not use all 8 micro-wells at once, cup the rest and put it back to bottle and sealed.
3. Do not touch the white membrane surface in the middle of test dipsticks, avoid sunlight and fan blowing directly.
4. Use the test dipsticks testing again for positive results.
5. Please contact the supplier for any questions.
6. The result is for reference only, for confirmation, please refer to the relevant national standard method.

Storage: Store at 2-8 °C in dark, sealed, dry place, no frozen.

Expiry date: 12 months; date of production is on box.

This test can also be used for Tissue and Egg sample, welcome to inquiry.