

**TOTAL AFLATOXINS RAPID TEST STRIP  
MANUAL**

## Total Aflatoxins Rapid Test Strip

**Catalogue Number. IP100112**

### **Brief**

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

### **Principle**

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

When the sample has no Total Aflatoxins 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 Total Aflatoxins 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	TAF 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  $1\pm 0.05$  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  $1\pm 0.05$  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.

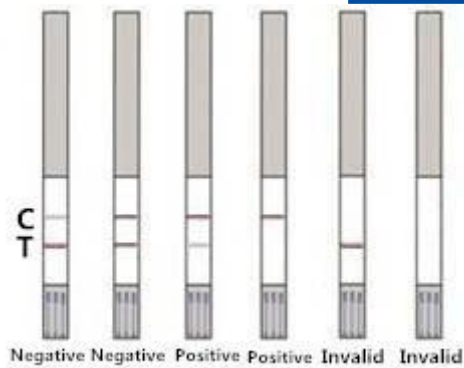
Detection limit (ppb)	5	10	15	20
Sample extracting buffer (ml)	2ml	4ml	6ml	8ml

**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 Total Aflatoxins 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 Total Aflatoxins 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.
- 5) Please contact the supplier for any questions.

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

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