

# Aflatoxin B1 Rapid Test Kit Art. No.: 400001-96T

Aflatoxins are naturally occurring mycotoxins, which are extremely toxic and among the most carcinogenic substances known. As the main content of aflatoxin family, aflatoxin B1 is a major concern which contaminates corn, wheat and nuts, etc., which is under strict control both in animal feed industry and in human consumptions. This product utilizes the high affinity of monoclonal antibody against aflatoxin B1, which can easily identify its contamination in samples without any instrument. The detection limit of the kit can meet both European and USA MRLs when used properly.

## 1. Detection Limit (LOD):

**6-8 ng/g (ppb)**

## 2. Kit components

- Test Strip, 96 pcs in 12 plastic bottles, 8 pcs / bottle.
- Kit insert

## 3. Solution preparation:

**Sample buffer: 0.01MPBS (pH 7.4) +0.3% Tween-20.** Take NaCl 8g, Na<sub>2</sub>HPO<sub>4</sub> 1.44g, Na<sub>2</sub>PO<sub>4</sub> 0.24g, 3g tween-20, dissolve with deionized water or distilled water and then dilute to 1L.

## 4. Assay Steps

- Read the instructions before experiment. Bring the test kit and samples to room temperature.
- Sample preparation:  
Take **5g** (precision: 0.01g) of ground feed (cereals, soy meal, DGGs, etc) sample into a 50ml centrifuge tube. Add **25ml** absolute methanol, shake fiercely for **1-2 min**, and then centrifuge at 6000rpm for **3 min**. Take **100ul** of the supernate (upper layer) and mix with **900ul** diluted sample buffer, mix thoroughly for testing.
- Take plastic vials needed from the kit package, take out required wells and strips, and make proper marks. Please use the test strips within 1h. Seal the cap of the bottles and store the unneeded kit.
- Take **100ul** of the prepared sample with micropipette into the microwell, and then repeatedly absorb up and down to mix the sample with the reagent in the wells completely. The mixture should be pink, and then start the timer.
- Incubate for **5min** at room temperature, and then insert the test strip into the well with the "**MAX**" end fully dipped in to the mixed reagent and sample.
- Incubate for **5min** at room temperature again. Take out the strip; determine the result according to **Part 4**.

## 5. Result Determination

**Positive (+):** Line C is red, line T has no color or has weaker color than OR the same as Line C.

**Negative (-):** Line T and Line C are both red. Line C has weaker color than Line T

**Invalid (x):** Line C has no color. In this case, please reread the instructions and repeat assay with new strip.

**Notice:** If the result of the strip needs to be recorded, please cut the "MAX" end, and dry the strip, then keep it as file or paste in your recording book.

## 6. Storage

2-8°C in cool dark place, do not freeze. The kit is valid for 12 months. Lot number and expired date are printed on the package.

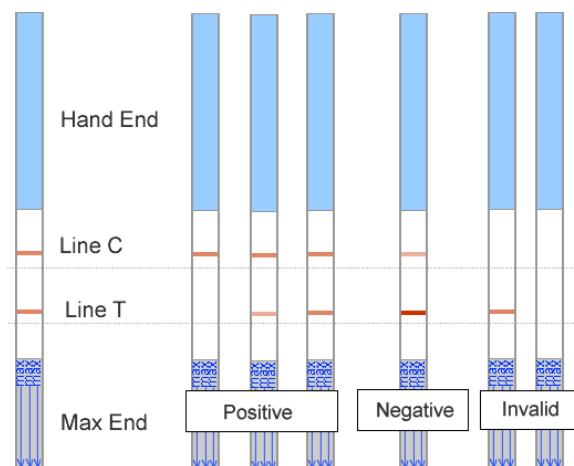
## 7. Notice and Precautions for a successful experiment.

Please perform the assay following the instruction, do not touch the membrane of the strip.

Please seal the bottle after taking out required strips.

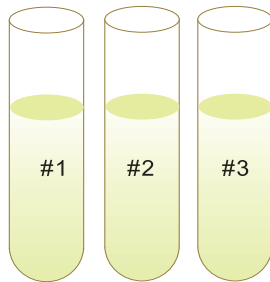
This strip is used for only once; please do not use it repeatedly.

This kit is only for screening test, positive result should be further confirmed with other method.

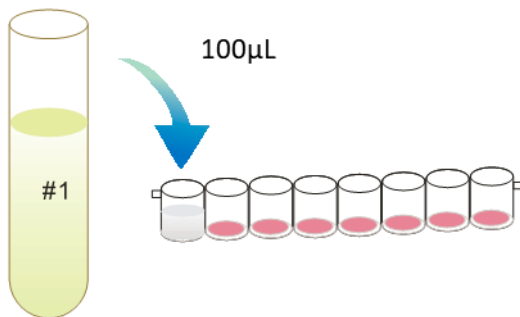
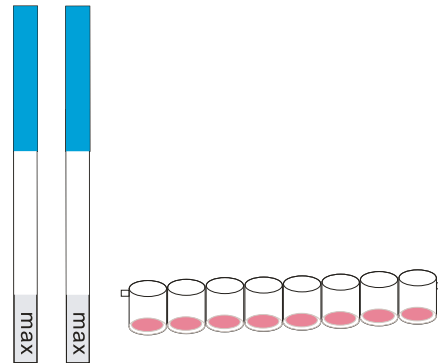


## Schematic Assay Steps

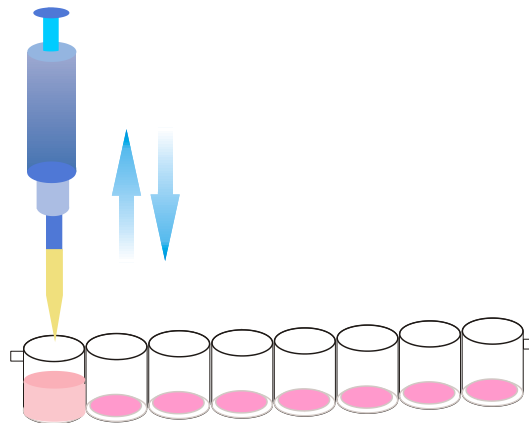
1. Bring all test samples to room temperature; number them to keep record.



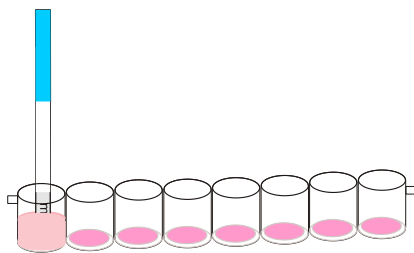
2. Take test kit according to your sample number and also number the kit wells to keep record and consistency.



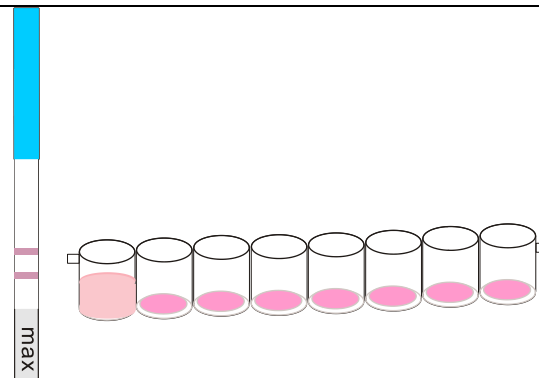
3. Take 100ul sample into the wells using pipet. You can also then put the well into the well holder to avoid sample spill.



4. Absorb up and down for 5 times to mix sample with reagent completely. Start the timer when the mixture is pink. **Incubate for 5 min.**



5. Insert the "MAX" end of the strip into the mixture; **Incubate for 5 min at room temperature again.**



6. Take out the strip; judge the result according to **kit instruction.**

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