

The logo for ROJAN, featuring the word "ROJAN" in a bold, italicized, serif font, enclosed within a rectangular border.

Aflatoxin M1 rapid test

Rapid Test Device for Milk

Cat: 9132

Introduction: Aflatoxins are produced as secondary metabolites by the fungus *Aspergillus flavus* and *A. parasiticus* on variety of food products. They are potent toxic, carcinogenic, mutagenic, immunosuppressive and have been associated with various diseases, such as aflatoxicosis, in livestock, domestic animals and human throughout the world. There are four major aflatoxins, B1, B2, G1, G2 plus two additional metabolic products, M1 and M2 that are of significance as direct contaminants of foods and feeds. Aflatoxin M1 (AF M1) is normally predominant in milk products.

INTENDED USE: Aflatoxin M1 Test is a qualitative immunochromatographic assay for the detection of aflatoxin M1 in milk.

PRINCIPLE: The basis of the immunochromatographic assay in test cassette is an competitive antigen-antibody reaction. The aflatoxin M1 molecules in the samples and AFM1-BSA fixed on the membrane (T-zone) will compete to combine the red complex of specific immunogold aflatoxin M1 antibodies. The results are read visually by observing the development of colored bands. The control band (control line) is not influenced by aflatoxin M1 in the sample and should be present in all cases in order to prove the test card is valid. The test band (test line) is clearly visible in the absence of aflatoxin M1 in the sample and if aflatoxin M1 is present in concentrations higher than **0.1 ppb** the band is invisible or **very fad**.

MATERIALS PROVIDED:

- A-20 aluminum foil pouches each containing AFM1 test card.
- B-20 micro tubes containing antibody conjugated gold colloid.
- C- 20 droppers
- E- One instruction for use.
- F- One stand

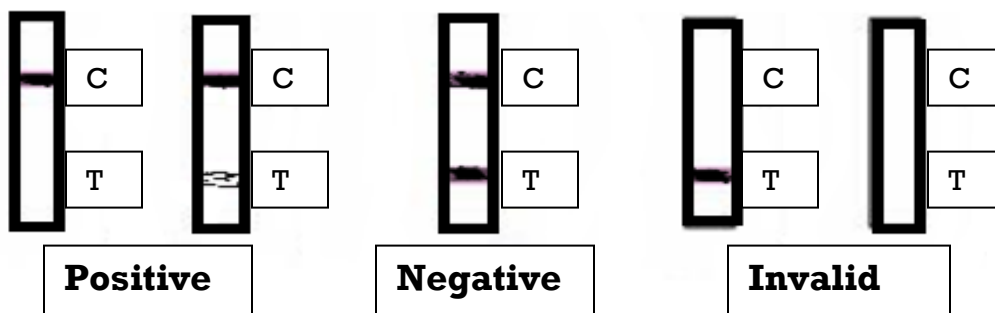
PRECAUTIONS:

- All specimens should be handled as being potentially poisonous.
- Do not open or remove test kit from their individually sealed pouches until immediately before their use .Do not reuse test kit.
- All reagents must be at room temperature before running the assay.
- Do not use the test beyond the stated expiration date marked on the package label. The components in this kit have been quality control tested as standard batch unit.
- Do not mix components from different lot numbers.
- The kit can be stored at room temperature (2-30°C) or refrigerated. The test kit is stable through the expiration date marked on the package label. **DO NOT FREEZE**. Do not store the test kit in direct sun light.

PROCEDURE OF THE TEST:

- 1-Please carefully read the instruction prior to testing. Bring all the reagents to room temperature before use.
- 2-Remove the test cassette from the foil pouch. Place it horizontally on the desk. Use it soon in one hour.
- 3- Remove 2 drops of milk from well shaken Milk sample , add it to the micro tube(should be added to the central cup placed within the tube) ,close the cap and incubate while placed on the stand provided (**should not be inverted**) for 5 min while shaking gently and occasionally.
- 4-Remove the content (2 drops) of micro tube and add to the cassette (**the S well**).
- 5- Wait for 5 minutes the result appears .Interpret the result within 10 min.as show below.

INTERPRETATION OF RESULTS: The presence of only on **clear** band in zone “C” indicates a strong positive result. That means the level of aflatoxin M1 is well over **0.1 ppb** in the sample. If one very **weak** band appears in zone T, the result is also considered positive (may be around 0.1 ppb). The presence of two clear color bands (**T** and **C**) within the result window indicates a negative result and tells that the concentrations of aflatoxin M1 is no more than **0.1ppb** in the sample. If the control band is not visible in zone C, the result is considered invalid (please see below).



LIMITATION

The Rojan Aflatoxin test is a useful tool offering a rapid and accurate testing in practical detection .The result is usually considered as a primary estimation. Other testing methods should be followed to give a comprehensive estimation if necessary.

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