

Fumonisin B1 Rapid Test

1. INTENDED USE

Fumonisin B1 Rapid Test is a competitive immunoassay for the semi-quantitative detection of the presence of Fumonisin B1 residue in grains and feed sample.

Cut-off: 200 ppb

Assay Time: 5 - 10 min

Sample: Grains and feed extraction

2. PRINCIPLE OF THE ASSAY

Fumonisin B1 Rapid Test is based on competitive lateral flow immunochromatographic assay. The FB1 conjugate in the test zone will capture the immuno-gold (colloid gold-FB1 antibody conjugate), when there is very little dissociative FB1 in the extraction. A visible red test band indicates a negative result when the control band (C zone) shows that the card is valid. The test band (T zone) will be not visible if FB1 is present in concentration of 200 ppb value and above which explains a positive result.

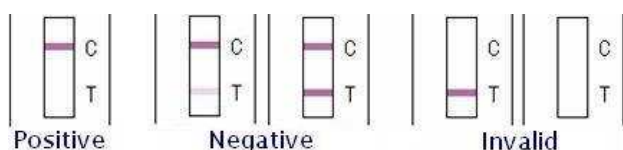
3. KIT COMPONENT

- 10×foil pouches each contains one FB1 cassette with a pipette and a desiccant
- 1×assay diluent (50 mL)
- 2×centrifugal tubes (15 mL)
- Products Manual

4. TEST PROCEDURE

- Grind a representative sample to the particle size of fine instant coffee (50% passes through a 20 mesh screen). Weigh out 2.0 g ground portion of the sample into the centrifugal tube (15 mL).
- Add 4 mL of the assay diluent into the tube and cover the lid. Shake for 5 min and do a centrifugation at 4000 rpm for 1 min. Use the supernatant liquid for assay.
- Take out the cassette from the foil pouch and place it horizontally.
- Suck the liquid and drop 3 drops gradually into the assay sample hole "S".
- Interpret the result in 5-10 minutes. Result after 10 minutes is considered as invalid.

5. INTERPRETATION OF RESULTS



Positive: Only one clear band in C zone indicates a positive result.

Positive shows that the concentration of Fumonisin B1 is at or above 200 ppb in the samples.

Negative: The presence of both bands in C zone and T zone.

Invalid: No band appears in C zone.

6. STORAGE

The kit can be stored at room temperature (2-30°C). The test kit is stable through the expiration date (18 months) marked on the foil pouch. **DO NOT FREEZE.** Do not store the test kit in direct sunlight.

7. PRECAUTIONS

- For best results, please strictly adhere to these instructions.
- All reagents must be at room temperature before running the assay.
- Do not remove test cassette from its pouch until immediately before use.
- Do not reuse the test kit.
- Do not use the test beyond its expiration date marked on the foil pouch.
- The components in this kit have been quality control tested as standard batch unit. Do not mix components from different lot numbers.

8. LIMITATION

Fumonisin B1 Rapid Test is an useful tool offering a rapid and accurate testing in field screening, exceeding with its convenience. It provides a semi-quantitative method to detect the Fumonisin B1 above 200 ppb in grains or feed samples. If you want a quantitative result, please adopt other method such as ELISA/ HPLC in practice.