

T-2 Toxin Rapid Test

1. INTENDED USE

T-2 Toxin Rapid Test is a competitive immunoassay for the semi-quantitative detection of the presence of T-2 toxin residue in grains and feed sample.

Cut-off: 100 ppb base

Assay Time: 5 - 10 min

Sample: Grains and feed extraction

2. PRINCIPLE OF THE ASSAY

T-2 toxin Rapid Test is based on competitive lateral flow immunochromatographic assay. The T-2 toxin conjugate in the test zone will capture the immuno-gold (colloid gold-T-2 antibody conjugate), when there is very little dissociative T-2 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 T-2 is present in concentration of the cut-off value and above which explains a positive result.

3. KIT COMPONENT

- 10×foil pouches each contains one T-2 cassette with a pipette and a desiccant
- 2×assay diluent (Diluent A, 30 mL, Diluent B, 8 mL)
- 2×centrifugal tubes (15 mL)
- Products Manual

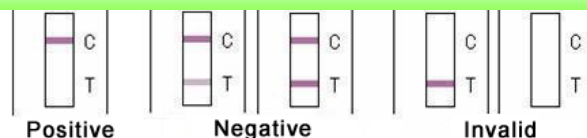
4. TEST PROCEDURE

- 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 2 mL of Diluent A and 8 mL of ethyl acetate into the tube. Shake for 5 min. (If emulsification appears, do a centrifugation at 4000 rpm for 1 min.)
- Collect accurately 2 mL of supernatant (ethyl acetate layer) into a small container (beaker or tube). Dry the liquid by blowing wind.
- Redissolve the residues in the small beaker with an amount of the provided Diluent B. (REF: Table)

Cut-off (ppb)	100	200	500	1000
Diluent B (mL)	0.4	0.8	2.0	4.0

- Take out the cassette from the foil pouch and place it horizontally.
- Suck the liquid and drop 3 drops 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 T-2 Toxin is at or above 100 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

T-2 toxin 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 T-2 toxin above 100 ppb in grains or feed samples. If you want a quantitative result, please adopt other method such as ELISA/ HPLC in practice