

Thiabendazole Colloidal Gold Test Strips (DTS826L)

This product is for research use only and is not intended for diagnostic use.

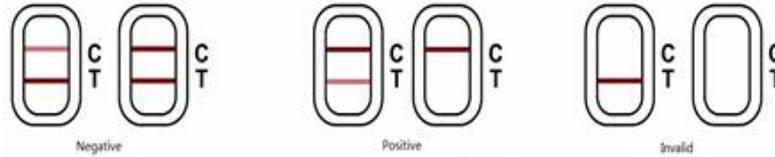
PRODUCT INFORMATION

Size	50T
Intended Use	The test strip can qualitatively detect the residual amount of thiabendazole in vegetables (potatoes, cucumbers, cabbage) and tea samples.
General Description	Thiabendazole is a benzimidazole derivative with anthelmintic property. Although the mechanism of action has not been fully elucidated, thiabendazole inhibits the helminth-specific mitochondrial enzyme fumarate reductase, thereby inhibiting the citric acid cycle, mitochondrial respiration and subsequent production of ATP, ultimately leading to helminth's death. In addition, it has been suggested that thiabendazole may lead to inhibition of microtubule polymerization by binding to beta-tubulin and has an overt ovicidal effect with regard to some trichostrongylids.
Reagents And Materials Provided	(1) Thiabendazole test strips: 50 tests/bottle (2) Disposable straws: 50 pcs (3) Extraction Buffer: 50 mL X 2 bottles (4) Instruction: 1
Materials Required But Not Supplied	(1) Balance: 0.01 g (2) 15 mL polystyrene centrifuge tube
Storage	Keep the test strips in a dry environment at 2-30 °C, protected from light. This product is valid for 12 months.
Specimen Collection And Preparation	(1) The sample should be returned to room temperature (20 ~ 30 °C) before the test, take a fresh sample, wipe off the soil, and cut into pieces smaller than 1 cm square. (2) Weigh 1.00 ± 0.05 g sample into a 15 mL polystyrene centrifuge tube, add 8 mL of extraction solution, close the lid, shake manually for 30 s, and let stand for 1 min to obtain the sample to be tested.

Assay Procedure

- (1) Please read the instructions carefully before the experiment. Before use, return the test strip and the sample to be tested to room temperature (20 to 30 °C).
- (2) Remove the test strip from the original packaging bag and use it as soon as possible within 60 minutes after opening.
- (3) Aspirate the sample to be tested with a disposable pipette, and slowly drop 3 drops vertically into the sample hole (S hole).
- (4) After 10 minutes of reaction, determine the result.

Interpretation Of Results



Negative (-): Color of Test Line (Line T) is deeper than Control Line (Line C) or the same color, indicating that the content of thiabendazole in sample is lower than the LOD of the kit.

Positive (+): No color shows in Test line (Line T) or Color of Test Line (Line T) is lighter than Control Line (Line C) indicating that the thiabendazole in sample is higher than the LOD of the kit.

Invalid: No color shows in Control Line (Line C), indicating the operation is incorrect or the test kit is out of date. In this case, please read the instruction again carefully, and repeat the assay with a new test strip.

Detection Limit

1 mg/kg (ppm)

Precautions

- (1) Before each sample inspection, the cutter that shreds the sample needs to be cleaned to avoid cross contamination.
- (2) Use the sample within 30 minutes after the sample is processed. If the time is too long, the sample needs to be reprocessed and tested again.
- (3) Please perform the test according to the operation steps. Do not touch the color development area of the test strip during operation, and avoid direct sunlight during the test.
- (4) This test strip is a disposable product, please do not reuse it.
- (5) The test results of this product are for reference only. For confirmation, please use HPLC or MS for verification.