

MODERNWATER

QuickChek™

Detection of Atrazine by Strip Test

Atrazine is one of the most widely used herbicides in the United States and Australia. Since 2001 it is the most commonly detected pesticide in drinking water supplies in the United States.

Why test for atrazine?

Many research studies have associated long term exposure to atrazine with being toxic to wildlife, impairing the human immune system and causing birth defects. The US Environmental Protection Agency (EPA) has acknowledged the harmful effects and has limited its use to only be applied by a pesticide professional, with the exception for lawn care, turf and conifer trees.

In 2013, 73.7 million pounds of the chemical compound was applied in the United States and was used on more than half of all corn crops and up to 90% of sugar cane. High levels of contamination in water have been found especially in the Midwest and Southern United States making the requirement for a quick test kit to measure the amount of atrazine in water essential.

- Rapid lab testing method for the detection of atrazine in drinking and environmental water samples
- Semi-quantitative data results with excellent analytical precision
- Results available in approximately 10 minutes
- Test strip immunoassay
- Ideal for environmental water monitoring

How can QuickChek Atrazine help you?

QuickChek™ Atrazine strip test produces results in just 10 minutes using the rapid enzyme immunoassay strip method and is ideal for detecting atrazine in both drinking water and environmental water samples. It has excellent analytical precision with a detection range from just 0.75 ppb to 10 ppb.



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This innovative technology saves operators and laboratories both time and resources when compared to costly analytical instrumentation that can take over an hour to achieve results. This enables plant operators to take faster corrective action when atrazine levels spike due to storm water runoff.

Test result type

- Semi-quantitative data

Samples per kit

- 10 strips

Assay range

- 0.75 ppb to 10.0 ppb

Method detection limit

- 0.5 ppb

Sampling time

- Sample-to-data in approximately 10 minutes

Basic Test Procedure

- Prepare sample
- Add contents of dropper pipet to reagent well of cassette
- Incubate for 10 minutes
- Insert cassette into strip reader
- Select 'Read sample'
- Record/ email results

Test kit components

- 10 strip tests
- Test kit instructions
- Dropper pipette

Four result categories

- Below detection level
- Less than 1.0 ppb
- Less than 3.0 ppb
- ≥ 3.0 ppb and ≤ 10.0 ppb and higher
- Higher than 10.0 ppb

Storage & precautions

- Shelf life is typically one year from date of manufacture, with specific kit expiration date information provided on product packaging.



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