

# Exploro® Highly Sensitive URINARY TRACT INFECTION (UTI) TEST

For detection of leukocytes (white blood cells) and nitrite (compounds that can indicate bacterial infection) in urine

**Exploro® Highly Sensitive Urinary Tract Infection (UTI) Test** is designed to detect leukocytes (LEU) (**see FAQ #1**) at levels as low as 0.0018 milligrams per milliliter (mg/mL) and nitrite (NIT) (**see FAQ #3**) at levels as low as 0.05 milligrams per deciliter (mg/dL) in urine, helping to identify potential urinary tract infections through visual interpretation of color change.

Exploro® Highly Sensitive Urinary Tract Infection (UTI) Test provides preliminary results and serves as a self-test tool, particularly for those experiencing symptoms such as pain or burning sensation during urination, frequent urination, urgent need to urinate, cloudy or bloody urine, strong-smelling urine, pelvic pain, low-grade fever, feeling of incomplete bladder emptying.

### ITEMS PROVIDED

- Test device (see the back of the box for quantity)
- User instructions
- Colorimetric card

### ITEMS NOT PROVIDED

- Timer
- Absorbent material (e.g. paper towel)

### STORAGE

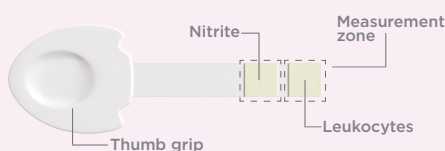
- Store the test at 39-86°F (4-30°C). DO NOT FREEZE.
- Do not open the pouch until ready for use.

### CAUTION

- This test can only be used as an in vitro diagnostic test using human urine as a sample and cannot be used with samples of other body fluids.
- The use of urine preservatives is not recommended.

### ⚠ WARNING

- Read the complete information before performing the test.
- The test kit should be stored at room temperature, avoiding areas of excess moisture.
- Do not use the test if the foil packaging is damaged or has been opened.
- After opening the test package, use it immediately to avoid prolonged exposure to air, which could cause the test to malfunction.
- Have a watch, clock, or timer available.
- The "time" instructions must be followed correctly when carrying out the test and observing the results.
- The test kit must not be frozen.
- Do not use the test after the expiry date printed on the package and foil pouch.
- The test is for one-time use only, DO NOT REUSE.
- Keep out of reach of children.
- Keep out of direct sunlight.
- Do not touch or remove the measurement zone.



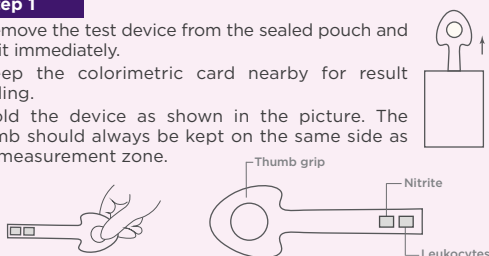
## TESTING

### Before you begin

- Read the full instructions carefully before performing the test. Familiarize yourself with how to compare the color in the measurement zone of the device to the colorimetric card (Step 3).
- Prepare all necessary items, a timer and absorbent material (e.g. paper towel).
- Bring the test to room temperature of 59-80°F (15-30°C) before use.
- Wash the genital area thoroughly with soap and water, then rinse well before testing.

### Step 1

- Remove the test device from the sealed pouch and use it immediately.
- Keep the colorimetric card nearby for result reading.
- Hold the device as shown in the picture. The thumb should always be kept on the same side as the measurement zone.

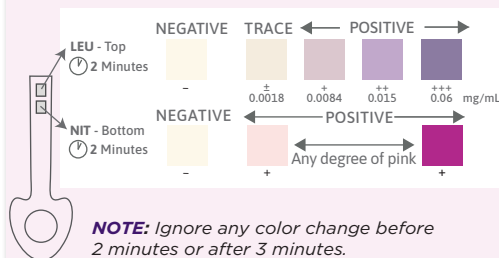
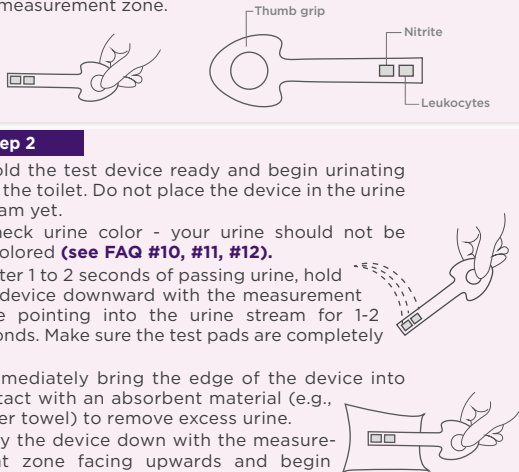


### Step 3

- Hold the colorimetric card in one hand and the device in the other, as shown in the image below. Prepare to read your results at 2 minutes.
- Leukocytes (LEU). Read the LEU result by comparing the top pad of the device with the color blocks labeled "LEU" on the colorimetric card. Move the device along the color chart to identify the matching color.
- Nitrite (NIT). Read the NIT result by comparing the bottom pad of the device with the color blocks labeled "NIT" on the colorimetric card. Move the device along the color chart to identify the matching color.

### Step 2

- Hold the test device ready and begin urinating into the toilet. Do not place the device in the urine stream yet.
- Check urine color - your urine should not be discolored (**see FAQ #10, #11, #12**).
- After 1 to 2 seconds of passing urine, hold the device downward with the measurement zone pointing into the urine stream for 1-2 seconds. Make sure the test pads are completely wet.
- Immediately bring the edge of the device into contact with an absorbent material (e.g., paper towel) to remove excess urine.
- Lay the device down with the measurement zone facing upwards and begin timing.



**NOTE:** Ignore any color change before 2 minutes or after 3 minutes.

### Results

For accurate interpretation, both LEU and NIT must be read.

Case	LEU Result	NIT Result	Recommendation
#1	Negative	Negative	<b>Results suggest no sign of a UTI.</b> If you have symptoms, consult your healthcare provider; there are some cases of UTI that the test may not detect.
#2	Trace	Negative	<b>Results suggest additional testing is required.</b> Repeat the test the next morning using your first urine of the day. If symptoms persist or the result is still trace, consult your healthcare provider.
#3	Positive +, ++, +++	Negative	<b>Results suggest a sign of a UTI.</b> Retest with a new strip the next time you urinate. Be sure to clean the genital area first. If positive again, consult your healthcare provider.
#4	Negative or Trace	Positive	<b>Results suggest a sign of a UTI.</b> Consult your healthcare provider right away.
#5	Positive +, ++, +++	Positive	

### LIMITATIONS

- Exploro® Highly Sensitive Urinary Tract Infection (UTI) Test may yield false results if the urine is not its natural color. Urine discoloration can occur due to the consumption of certain foods, supplements, or medications (**see FAQ #11**). These substances can alter the color of urine and interfere with the visual interpretation of the test device, potentially masking the color change that indicates the presence of leukocytes and nitrite (**see FAQ #10**).
- Reading of the results may be affected if you have color vision deficiency (color blindness).
- Leukocytes test results may be low due to high protein or elevated glucose in urine.
- High ascorbic acid may cause nitrite test results to be low.

**NOTE:** You may get a negative result if you have a UTI caused by bacteria that do not change nitrate to nitrite when urine has not been held in the bladder for more than 4 hours, when taking antibiotics, or when your diet does not include nitrate.

**Worried About Your Test?  
Scan the QR Code for Exclusive Expert Guidance!**



# FREQUENTLY ASKED QUESTIONS

## 1. How does the test detect leukocytes in urine?

This test detects granulocyte esterases in urine. These esterases react with specific chemicals, changing color from beige-pink to purple.

## 2. What are granulocyte esterases?

Granulocyte esterases are enzymes found within granulocytes, a type of white blood cell that is part of the immune system. In the context of a urinary tract infection (UTI), the presence of granulocyte esterases in urine can be an indicator of an infection. When the body fights a UTI, granulocytes move to the site of infection and release these esterases. Therefore, detecting granulocyte esterases in a UTI test helps identify the presence of white blood cells in the urine, signaling an immune response to an infection.

## 3. How does the test detect nitrite in urine?

This test detects nitrite in urine, which is produced by Gram-negative bacteria converting nitrate to nitrite. In acidic conditions, nitrite reacts with p-arsanilic acid and 1,2,3,4-Tetrahydrobenzo[h]quinolin-3-ol to produce a pink color.

## 4. What are Gram-negative bacteria?

Gram-negative bacteria are a group of bacteria characterized by their cell wall structure, which includes a thin layer of peptidoglycan and an outer membrane containing lipopolysaccharides. This structure makes them more resistant to certain antibiotics compared to Gram-positive bacteria. Common Gram-negative bacteria that cause urinary tract infections include Escherichia coli (E. coli), Klebsiella, and Proteus species. These bacteria can convert nitrate (found in urine) to nitrite, which is detected in UTI tests to indicate an infection.

## 5. What is p-arsanilic acid and its relevance to UTI tests?

p-Arsanilic acid, also known as para-aminobenzenearsonic acid, is an organic compound containing an arsenic acid group attached to an aniline ring. In the context of UTI tests, p-arsanilic acid plays a crucial role in detecting nitrite in urine. When nitrite, produced by Gram-negative bacteria converting nitrate to nitrite, is present in urine, it reacts with p-arsanilic acid in acidic conditions to form a diazonium compound. This compound then couples with 1,2,3,4-Tetrahydrobenzo[h]quinolin-3-ol to produce a pink color. The development of this pink color indicates the presence of nitrite, suggesting a possible urinary tract infection.

## 6. What is 1,2,3,4-Tetrahydrobenzo[h]quinolin-3-ol and its relevance to UTI tests?

1,2,3,4-Tetrahydrobenzo[h]quinolin-3-ol is a chemical compound used in UTI tests to detect the presence of nitrite in urine. In acidic conditions, nitrite reacts with p-arsanilic acid and 1,2,3,4-Tetrahydrobenzo[h]quinolin-3-ol to produce a pink color. This color change indicates the presence of nitrite, which is produced by Gram-negative bacteria converting nitrate to nitrite. Therefore, the detection of nitrite, and subsequently the color change facilitated by 1,2,3,4-Tetrahydrobenzo[h]quinolin-3-ol, serves as an indicator of a bacterial infection in the urinary tract.

## 7. What are normal urine results for leukocytes and nitrite?

Normal urine typically shows negative results for leukocytes (white blood cells). If you get a trace result, it may not be significant, but you should retest with a fresh urine sample. If you repeatedly get trace or positive results, you should contact your healthcare provider for further evaluation, as this can indicate a health issue.

Nitrite is not usually present in normal urine. A positive nitrite result indicates a possible infection. The accuracy of nitrite detection varies, with detection rates ranging from 40% (for short bladder retention) to 80% (for at least 4 hours of bladder retention).

## 8. What to do if the results suggest a sign of a UTI?

If the results of your UTI test suggest a sign of a UTI, follow these steps:

- **Review the results.** Confirm that the test results indicate the presence of leukocytes (LEU) and/or nitrite (NIT). Refer to the included colorimetric card.
- **Stay hydrated.** Drink plenty of water to help flush bacteria out of your urinary tract.
- **Consult a healthcare provider.** Contact your healthcare provider to discuss the test results. They may recommend further testing to confirm the diagnosis and determine the appropriate treatment.
- **Avoid self-medication.** Do not attempt to treat the UTI on your own with over-the-counter medications or antibiotics without consulting a healthcare provider.
- **Provide detailed information.** When you visit your healthcare provider, provide detailed information about your symptoms, any recent changes in your health, and the results of the UTI test.
- **Monitor symptoms.** Keep track of your symptoms. If they worsen or do not improve within a few days of starting treatment, inform your healthcare provider.

## 9. What to do if the results suggest no sign of a UTI but you still experience symptoms?

If the results of your UTI test suggest no sign of a UTI but you still experience symptoms, follow these steps:

- **Review the results.** Confirm that the test results indicate no presence of leukocytes (LEU) or nitrite (NIT). Refer to the included colorimetric card.
- **Monitor symptoms.** Keep track of your symptoms, including their frequency, intensity, and any changes over time. Note any additional symptoms that may arise.
- **Consider other causes.** Understand that symptoms such as pain during urination, frequent urination, or pelvic pain can be caused by other conditions, such as:
  - vaginal infections,
  - sexually transmitted infections (STIs),
  - interstitial cystitis,
  - kidney stones,
  - irritation or trauma.
- **Consult a healthcare provider.** Contact your healthcare provider for a comprehensive evaluation. Explain your symptoms and the negative UTI test results. Your healthcare provider may recommend additional tests to identify the cause of your symptoms.
- **Stay hydrated.** Continue to drink plenty of water to help maintain urinary tract health and flush out any potential irritants.
- **Maintain good hygiene.** Practice good personal hygiene to prevent any potential infections and maintain overall urinary tract health.

## 10. How can urine discoloration affect the results of a UTI test?

Discoloration of urine can interfere with the visual interpretation of UTI test devices, which rely on color changes to indicate the presence of leukocytes and nitrite. Urine discoloration can:

- mask the color change on the test device,
- lead to misinterpretation of the results,
- cause false positive or negative results.

## 11. What factors can cause natural changes in urine color?

Urine color can naturally change due to various factors including diet, supplements, and medications:

- **Foods.** Certain foods can alter urine color, for example:
  - beets can cause red or pink urine,
  - carrots can cause orange urine,
  - berries can cause red or pink urine,
  - rhubarb can cause brown urine.
- **Supplements.** Vitamins and supplements can also change urine color, for example:
  - B vitamins (especially B2 and B12) can cause bright yellow or neon yellow urine,
  - Vitamin C can cause bright yellow urine.
- **Medications.** Some medications can change urine color, for example:
  - antibiotics such as rifampin, can cause red or orange urine,
  - diuretics can cause pale yellow urine,
  - laxatives containing senna can cause red or brown urine.

## 12. What should I do to ensure accurate UTI test results if my urine is discolored due to food, supplements, or medications?

If someone is experiencing changes in urine color due to diet, supplements, or medications, here are steps to take to ensure accurate UTI test results:

- **Hydrate and wait.** Drink plenty of water and wait a few hours to see if the urine returns to a more typical pale yellow color. This can help flush out the pigments causing discoloration.
- **Avoid certain foods and supplements.** If possible, avoid consuming foods or supplements known to change urine color for 24-48 hours before the test.
- **Consult a healthcare provider.** If you are taking medications that affect urine color, consult your healthcare provider about the best time to perform the test or if there are alternative testing methods available.
- **Use fresh morning urine.** Morning urine is typically more concentrated and less likely to be affected by recent dietary intake, providing a more accurate test result.
- **Repeat testing.** If the initial test result is unclear due to urine color, repeat the test with a fresh sample.

## 13. Can environmental factors like temperature affect the results?

Yes, extreme temperatures can affect the chemical reagents in the test kit. Store the kit in a cool, dry place and avoid exposing it to extreme temperatures for extended periods.

## 14. What should I do if my test kit is missing components?

This is not possible due to automated procedures in our facility. However, in unlikely scenarios, it could happen during the shipment or handling of your order. If this occurs and the kit is missing components, please contact our customer support immediately at [hello@exploroproducts.com](mailto:hello@exploroproducts.com).

## 15. What is the shelf-life of the test?

The shelf-life of the test is 24 months. Each pouch has its due date printed on it; therefore, you will know exactly for how long it is usable. If you receive a package with less than 6 months of shelf-life remaining, we will replace this package free of charge. DO NOT use the test after the expiry date shown on the pouch.

## 16. Can the test produce false results?

Yes, there is a possibility of false results. Factors such as the presence of substances that cause abnormal urine color, high protein or elevated glucose levels, high ascorbic acid (vitamin C) intake, incorrect usage, expired devices, or contamination can affect results. It's important to consult your physician before making any medical decisions based on the test results.

## 17. How accurate are these test devices?

The test devices are designed to be accurate when used correctly. Follow the instructions carefully and read the results within the specified time frame. For best accuracy, compare results with clinical testing if possible.

## 18. How should I interpret the color changes on the test device?

Each color change corresponds to a specific result. Refer to the colorimetric card provided in the packaging for accurate interpretation. Ensure good lighting when reading the results.

## 19. Can I reuse a test device?

No, each device is designed for single use only. Reusing a device can result in contamination and inaccurate readings.

## 20. Can I use the test devices during pregnancy?

Yes, the test devices can be used during pregnancy. However, it is advisable to consult with your healthcare provider for personalized advice.













## 21. How do I dispose of used test devices?

Dispose of used test devices in regular household waste. Ensure they are sealed in a bag to prevent any contamination.

## 22. Can the test devices detect other infections besides UTIs?

The test devices are specifically designed to detect UTIs. For other infections, consult your healthcare provider for appropriate tests and diagnosis.

## INDEX OF SYMBOLS

	Do not reuse		Do not use if package is damaged
	Stored between 39-86°F (4-30°C)		Consult instruction for use
	Caution		Lot number
	Use by		Contains sufficient for <math>n> tests
	Keep away from sunlight		Keep dry
	Manufacturer		For in vitro diagnostic use only

## Distributed by:

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24/7  
Support



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We are confident about our product performance, but if it has not met your expectations, we will refund you with all the related expenses (including the cost of shipping) within 365 days from your purchase.