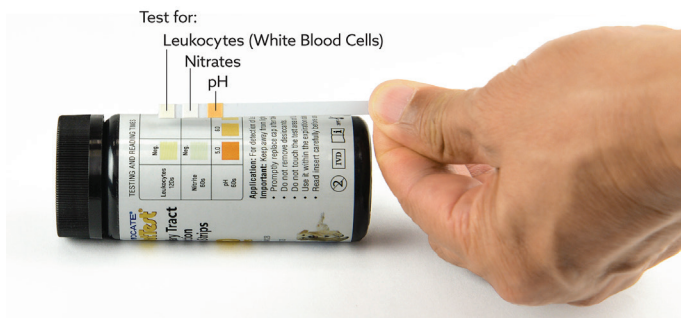


Urinary Tract Infection Test Strip User's Guide

Distributed By: Diabetic Supply of Suncoast, Inc.
PO Box 2102, Vega Alta, PR 00692
1-866-373-2824 / www.ShopPetTest.com
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Summary

The Urinary Tract Infection Test Strips are for the qualitative and semi-quantitative detection of Leukocytes, Nitrite, and pH in canine and feline urine. It is used as an aid in the screening of a urinary tract infection (UTI). The UTI test strips are for in vitro diagnostic use only. **Do not use after the expiration date.**

Read all directions in this User's Guide before performing any testing. Results are to be read visually by comparing the color change of the test strip pads to the corresponding color ranges on the chart on the label of the test strip container at the specified times.

Specifications

50 urinalysis test strips per bottle.

Specimen Collection and Preparation

The urine collection, storage and handling must be sterile and follow standard sterile procedures. Collect fresh urine in a clean, dry container that is free of any disinfecting or cleaning chemicals. Urine sample should be well-mixed prior to testing. Analysis should be performed as soon as possible (ideally within 30 minutes) but never after more than 2 hours post collection. If immediate testing is not possible, refrigerate the specimen and bring it to room temperature before testing.

Note

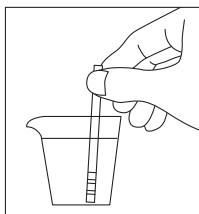
For best results, use of control solutions can be used to confirm accuracy of the test strip. Never use water for control testing. Prolonged storage of unpreserved or unrefrigerated urine may result in microbial growth and impact results.

Test Procedure

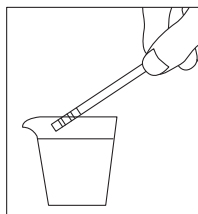
1. Remove one strip from the bottle and replace the cap immediately.
2. Immerse the reagent area of the strip in the urine specimen and take it out quickly. See Figure 1.
3. While removing the strip from the urine, run the edge of the strip against the rim of the urine container to remove excess urine. See Figure 2.
4. Compare the colors of the reagent areas to the corresponding color blocks on the reagent strip vial at the specified times. Hold the strip close to the color blocks in good light and match carefully. See Figure 3.
Proper read time is critical for optimal results. Read the nitrite and pH test at 60 seconds after dipping. Read the leukocytes test at 120 seconds after dipping.

Note: Changes in color after more than 2 minutes will have no diagnostic significance.

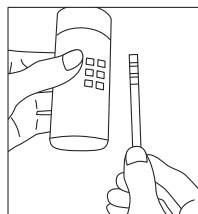
Note: Changes in color that appear only along the edges of the test strips are of no diagnostic significance.



(1)



(2)



(3)

Test Conditions

Ambient temperature: 68°F-86°F [20°C-30°C], relative humidity ≤80%, the best test temperature: 73.4°F-80.6°F [23°C-27°C].

Storage

Store between 35.6°F-86°F [2-30°C] in a dry area. Do not store in a refrigerator or leave in direct sunlight. Keep them isolated from dampness, light or high temperatures to preserve the reaction activity of reagent. Never touch the test area of reagent strips.

NOTE: Once the canister has been opened, the remaining strips are stable for up to 3 months. **Stability may be reduced in high humidity conditions.**

Limitation of Procedures

Just like all laboratory tests, the diagnosis and treatment protocols cannot be decided only by any single diagnostic method. Consult your physician before making any medical decisions.

The test may be affected by substances that cause abnormal urine color such as drugs containing azo dyes (e.g. Pyridium, Azo Gantrisin, Azo Gantanol), Nitrofurantoin (Macrochantin, Furadantin), Riboflavin as well as B Complex Vitamins (a false positive can be seen due to the byproducts of these substances). The color development on the test strip may be masked or a color reaction may be produced that could be interpreted as false results.

Your pet may have a UTI even though the test strips test negative due to less concentration in the urine and the bacteria that are present may not change the nitrate to nitrite. Furthermore, if your pet is taking antibiotics they may also get a false negative (they may have a bacteria in their system but it is not registering on the test strips due to the antibiotic they are taking). Also, they may get a UTI due to chronic use of antibiotics (because this medicine can kill good bacteria allowing the bad bacteria to take over their system).

1. **Leukocytes:** The drug tetracycline may cause a false negative result. High protein or elevated glucose in urine may cause test results to be low (false negative).
2. **Nitrite:** Any degree of uniform light pink to dark pink color should be read as a positive result. Pink spots or pink edges should not be read as a positive result. High ascorbic acid (Vitamin C) may cause test results to be low.
3. **pH:** An acidic pH only means their body has inflammation that could cause a UTI. It does not mean they have a UTI, but it would be good practice to have a more alkaline diet to offset getting a UTI.

Reaction Principle

Leukocytes: Pyrrole phenol lipid and the neutrophil esterase under the hydrolysis, produces free phenol, the free phenol coupled reacts with arenediazonium salts, produce purple azo dyes.

Nitrite: Nitrite and aromatic amino-sulfanilamide react to diazo compound, and the diazo compound coupled reacts with tetrahydro-benzoquinoline-3-phenol, which produces azo dyes.

pH: Applied to acid alkali indicator method.

(continued on reverse page)

Analyzer and visual analysis and sensitivity range

Items	Sensitivity	Visual Range
Leukocytes (ca cells/ μ L)	5-15	Neg.-500
Nitrite (μ mol/L)	13-22	Neg.-Pos
pH	5.0-8.5	5.0-8.5

IMPORTANT: Your Pet may have a UTI when they test positive for both Leukocytes & Nitrite. Their pH will also be Acidic (6.0 or less) when they have a UTI.

Ingredients (based on dry weight at time of impregnation)

Leukocytes	pyrrole amino acid ester diazonium salt buffer non-reaction ingredients	0.04%W/W 0.02%W/W 40.9%W/W 58.5%W/W
Nitrite	p-arsanilic acid tetrahydro benzoquinoline buffer non-reaction ingredients	1.4%W/W 1.3%W/W 10.8%W/W 86.5%W/W
pH	methyl red bromthymol blue non-reaction ingredients	0.2%W/W 2.8%W/W 97.0%W/W

Graphic and Symbol Explanation

	Lot number		Do not reuse
	In vitro diagnostic use		Store at
	See instruction for use		Manufacture date
	Use by/Expiry date		

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