

vetscan **FLEX4**
Rapid Test



**BEYOND
SOLUTIONS**

Supporting you at the point-of-care

vetscan



SIMPLE. FAST. SMART.

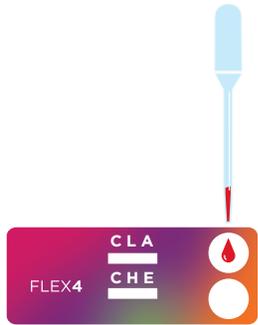
The VETSCAN™ Flex4 Rapid Test is a convenient and easy-to-use rapid test for the qualitative detection of antibodies to *Anaplasma phagocytophilum*, *A. platys*, *Borrelia burgdorferi*, *Ehrlichia canis*, *E. chaffeensis*, *E. ewingii*, and *Dirofilaria immitis* antigens in canine whole blood, serum, or plasma.

Check out the facts and see why thousands of veterinarians are using the Flex4 Rapid Test to add value to their service and improve profitability, making in-house diagnostics easy and intuitive for their staff again.



3 simple, intuitive steps help eliminate unnecessary re-tests and minimize the margin for human error

Veterinary nurses don't have time to babysit tests. Three easy steps require minimal hands-on time. Free your staff to spend time where they're needed most.



1

Add **1 drop** of anticoagulated whole blood, serum or plasma to each sample well.



2

Add **3 drops** of the chase buffer provided to each sample well.



3

Read results at 8 minutes.
Heartworm/Ehrlichia Positive Example

Results on the Flex4 Rapid Test are easy to read, with no decoder guide needed! If reading the cassette with the VETSCAN VUE, the VUE will read as positive/negative for each test.



Extended Shelf Life

Why let a short shelf life impact your bottom line? With a shelf life of 12 months from the date of manufacture, you can ensure every test counts for your hospital and staff.



More Bang for your Buck

From low-cost tests, to purchase options that can lead to rebates and rewards, Zoetis offers hassle-free programs that let you and your staff focus more on medicine and less on your bottom line.

Easy-to-read Results

Cassette labels make it easy to operate and interpret results. Whether faint or dark, any colored lines in the Test Line area that appear within 8-10 minutes of sample drop are **positive**. Visible colored Control Lines confirm the results are valid. It's that simple!

Confirmatory Testing Available

Zoetis investigates all reported discrepant or unexpected results, and offers confirmation testing for Lyme, Anaplasma, and Ehrlichia results on a case-by-case basis. Heartworm confirmation testing is always available, completely complimentary.



Technical Support

☎ 800 822 2947

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You can have great confidence in the results of the VETSCAN Flex4 Rapid Test.

	Sensitivity	Specificity
Ehrlichia	97.4% ¹	97.5% ¹
Lyme	100% ²	100% ²
Heartworm	98.5% ³	94% ³
Anaplasma	93.3% ⁴	96.4% ⁴



Distinguish Lyme exposure from Lyme vaccine

A recent study has shown that the Flex4 Rapid Test is not affected by Lyme vaccination with any of the commercially available Lyme vaccines, including VANGUARD[®] crLyme.⁷ You can count on the Flex4 to help you successfully identify true *Borrelia burgdorferi* exposure.



Save Space



Refrigerator storage space is valuable, and has led to some hospitals purchasing additional refrigerators to store all their medicines and vaccines. **The small size and room temperature storage of the Flex4 Rapid Test allows your hospital to save refrigerator space for products that truly need it,** saving you the hassle of additional costs and frustration.

Detect the Anaplasma patient with ease

Don't be surprised if you see more patients positive for Anaplasmosis. As Anaplasma becomes more prevalent⁵, you can have confidence the Flex4 Rapid Test is accurately⁴ identifying sick patients.

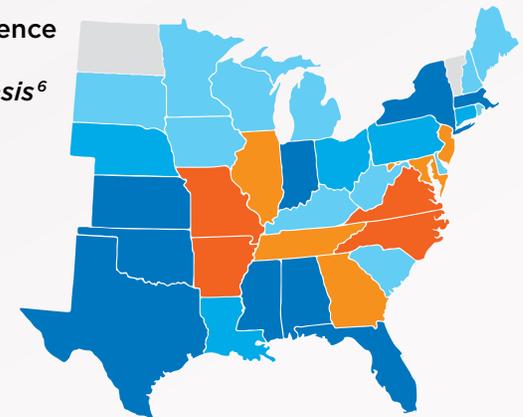


Identify all species of Ehrlichia

The Flex4 Rapid Test is USDA validated for the identification of all 3 species of Ehrlichia, including *E. chaffeensis*. With the Flex4 you can be assured that your practice is successfully screening for *E. chaffeensis* in addition *E. canis* and *E. ewingii* strains.

Seroprevalence by state of *E. chaffeensis*⁶

- No data
- < 50 samples
- 0%
- 0.1% - 1.6%
- 1.7% - 5%
- > 5%



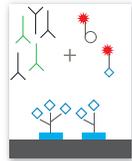
Source: Seroprevalence of Ehrlichia canis, Ehrlichia chaffeensis and Ehrlichia ewingii in dogs in North America by Melissa Beall et al.

Highly accurate results, delivered through proven lateral flow technology

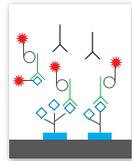
Lateral flow technology has served as a reliable tool for efficient diagnosis and patient evaluation in human and animal medicine for over 30 years. The accuracy of lateral flow testing has been shown to be statistically significant, and meets or exceeds FDA standards. Cancer, drug, and HIV testing is performed on lateral flow tests for humans, and more tests are offered to the veterinary field every year.

Antibody Lateral Flow

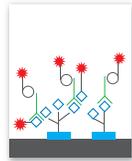
Magnification of the test "T" line



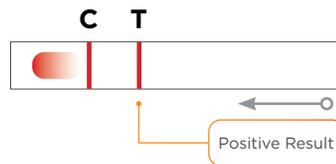
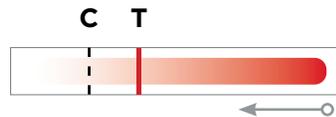
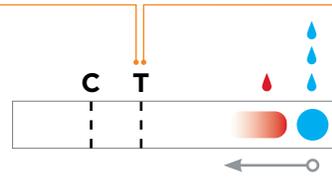
The conjugate pad is pre-treated with specific colloidal gold-conjugated peptides and colloidal gold-conjugated signal amplification proteins. The membrane is pre-coated with antibody specific peptides that have been linked to a protein carrier at the Test "T" line.



When the sample flows through the conjugate pad both colloidal gold conjugates bind to any specific antibodies present in the sample.

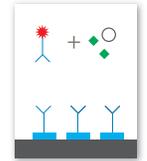


When the gold labeled antibodies reach the test "T" line specific antibodies bind to the test "T" line forming an "amplified sandwich" complex which has been augmented by Abaxis' patented signal amplification technology. The accumulation of the amplified sandwich complexes creates a visible signal.

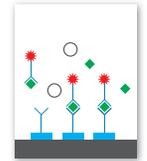


Antigen Lateral Flow

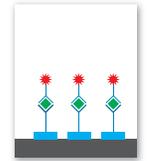
Magnification of the test "T" line



Sample and specific colloidal gold-conjugated antibodies combine in the conjugate pad creating antigen-antibody-gold conjugate. The test is pre-coated with antigen-specific antibodies at the test "T" line.



The conjugates flow across the membrane and bind to the antibodies in the sample line forming a "sandwich".



The accumulation of "sandwich" complexes in the test "T" line creates a visible signal.

◇ Capture Antigen

Y Carrier Protein

* Gold Nano Particle

Y Capture Antibody

○ Generic Antigen

Y Antibody of Interest

Y Generic Antibody

* Signal Amplification Protein

* Gold Nano Particle

◆ Antigen of Interest

vetscan RAPID TESTS

Providing the flexibility you need at the point-of-care



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¹ Data on file. Study No. TI-04015, Zoetis Inc.

² Data on file, Study Report No. TI-04012, Zoetis Inc.

³ Henry LG, Brunson KJ, Walden HS, Wenzlow N, Beachboard SE, Barr KL, et al. Comparison of six commercial antigen kits for detection of *Dirofilaria immitis* infections in canines with necropsy-confirmed heartworm status. *Veterinary Parasitology* 2018;254:178-82. doi:10.1016/j.vetpar.2018.02.037.

⁴ Data on file. Study no. TI-04029, Zoetis Inc.

⁵ Yabsley MJ. *Anaplasma* spp. Forecast 2018. *CAPC Vet.* <https://www.capcvet.org/articles/anaplasma-spp-forecast-2018/> (accessed September 7, 2018).

⁶ Beall MJ, Alleman AR, Breitschwerdt EB, Cohn LA, Couto CG, Dryden MW, et al. Seroprevalence of *Ehrlichia canis*, *Ehrlichia chaffeensis* and *Ehrlichia ewingii* in dogs in North America. *Parasites & Vectors* 2012;5. doi:10.1186/1756-3305-5-29.

⁷ Data on file. Study No. DHX6Z-US-18-051, Zoetis Inc.