

WITNESS® | Heartworm

Heartworm Antigen Test Kit

PROOF THAT EACH GENERATION GETS BETTER.

IMPROVED PERFORMANCE AND INCREASED ACCURACY
ACROSS MULTIPLE POPULATIONS.



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KEY BENEFITS

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An excellent choice for point-of-care testing

Accurate

Excellent sensitivity and specificity

Simple

Easy to store—**no refrigeration** required

Easy to perform—**no sample preparation or mixing; no snapping**

Easy to interpret—fast results in approximately 10 minutes;
one line=negative result, two lines=positive result

Affordable

An affordable alternative to other point-of-care heartworm diagnostic tests

Backed by Zoetis service and support



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The 3rd generation test that provides excellent sensitivity and specificity

Heartworm Results¹

USING DiroCHEK® AS A REFERENCE METHOD ⁱ

Sensitivity*	Specificity [†]
97.7% (95% CI: 94.1% - 99.4%)	99.3% (95% CI: 97.0% - 99.9%)

*Sensitivity represents the ability to correctly identify positive samples.
[†]Specificity represents the ability to correctly identify negative samples.

n=285



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The 3rd generation test that provides results comparable to IDEXX SNAP® 4DX

Comparative Data: Heartworm¹ USING DiroCHEK® AS A REFERENCE METHOD ⁱ

	Sensitivity*	Specificity†
WITNESS® Heartworm	97.7% (95% CI: 94.1% - 99.4%)	99.3% (95% CI: 97.0% - 99.9%)
IDEXX SNAP® 4DX Test	94.7% (95% CI: 89.9% - 97.6%)	100.0% (95% CI: 98.4% - 100.0%)

WITNESS uses RIM™ technology. IDEXX SNAP uses ELISA technology.
[What's the difference?](#) ⁱ

*Sensitivity represents the ability to correctly identify positive samples.
†Specificity represents the ability to correctly identify negative samples.

n=285



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Demonstrated consistent specificity across 3 different populations

Heartworm Results² USING DiroCHEK® AS A REFERENCE METHOD ⁱ

	Shelter Dogs	Clinic Dogs*	Purpose-bred Dogs
Specificity	100% (95% CI: 98.4% - 100%)	99.7% (95% CI: 95.5% - 100%)	100% (95% CI: 98.3% - 100%)
Sample Size	n=151	n=342	n=149

*Samples from three veterinary hospitals from three states (Georgia, Michigan and New York).

ⁱSpecificity represents the ability to correctly identify negative samples.



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Comparable results to IDEXX SNAP® 4DX Test using necropsy results

Comparative Data: Heartworm¹ USING NECROPSY RESULTS AS A REFERENCE METHOD ⁱ

	Sensitivity*	Specificity†
WITNESS® Heartworm	87.1% (95% CI: 80.9% - 91.8%)	97.8% (95% CI: 94.3% - 99.4%)
IDEXX SNAP® 4DX Test	84.4% (95% CI: 77.8% - 89.5%)	98.6% (95% CI: 95.4% - 99.7%)

WITNESS uses RIM™ technology. IDEXX SNAP uses ELISA technology.
[What's the difference?](#) ⁱ

*Sensitivity represents the ability to correctly identify positive samples.
†Specificity represents the ability to correctly identify negative samples.

n=285



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The 3rd generation test that is faster and easier to use than the IDEXX SNAP® Heartworm RT³

Features	WITNESS® Heartworm	IDEXX SNAP®
Sample can be plasma, serum, or whole blood	YES	YES
Requires only one drop of sample	YES	NO
Space on test cartridge to write pet name	YES	NO
Refrigeration recommended	NO	YES to maximize shelf life*
Requires sample preparation and mixing	NO	YES
Time-sensitive test manipulation required (snapping)	NO	YES
Requires complex interpretation of test results	NO	YES
Approximate total test time	10 min	~10 min PLUS kit warming (if necessary) PLUS multi-step sample preparation time PLUS time-sensitive test manipulation (snapping)

*Applies to SNAP® 4DX Plus



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RAPID, RELIABLE AND REALLY, REALLY SIMPLE



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Simple three-step process



Getting Started

For the most accurate and reliable test results, always use the **included pipette** to ensure that the correct drop size is applied.



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[Getting Started](#)

[How to Use](#)

[Tips](#)



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Heartworm Antigen Test Kit

STEP 1



Apply 1 drop of anticoagulated whole blood, plasma, or serum to the sample well

Write the pet's name here

1



2



3



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STEP 2



Add 2 drops of buffer to the sample well

1



2



3



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STEP

3



Wait 10 minutes to read

1



2



3



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How to get the most out of your WITNESS® Heartworm Antigen Test Kit

- **Check the expiration date** on the side of the test carton. The test expires twelve months from the date of manufacture.
- **Perform the test within ten minutes** after removal from the foil pouch.
- **Obtain the appropriate sample**—plasma, serum, or anticoagulated whole blood.
- **Avoid touching** or damaging the membrane.
- Place the device on a **flat, horizontal surface** while performing the test.
- Use a **separate pipette** for each sample.
- Hold pipette and buffer bottle **vertically** when dispensing.



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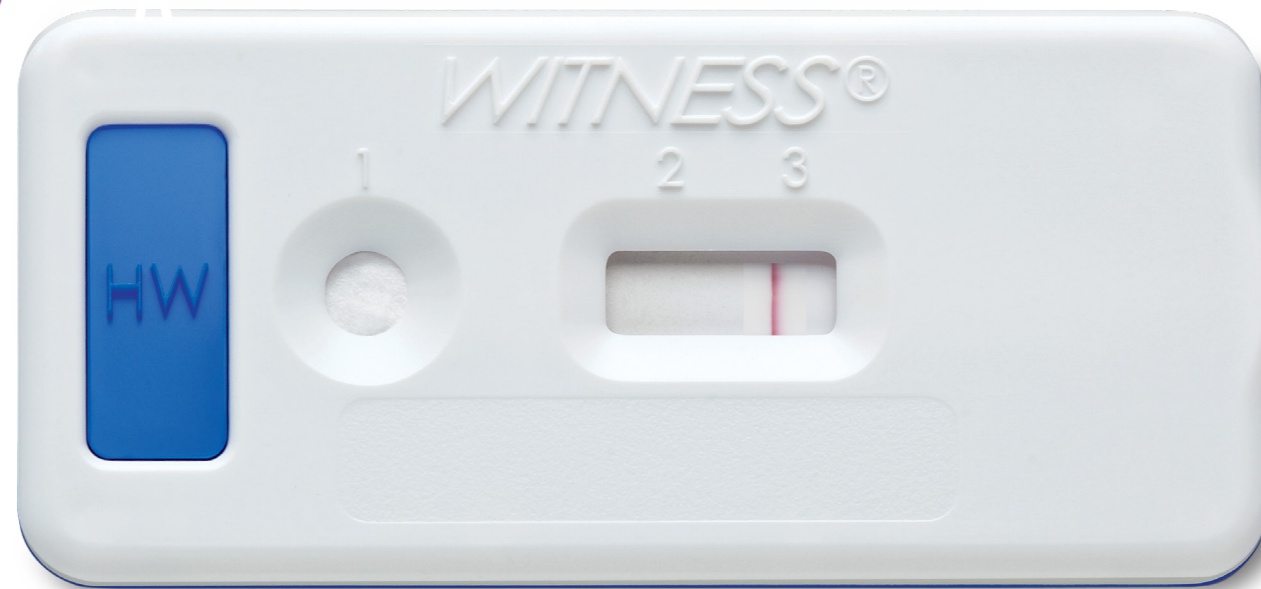
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Simple-to-interpret results

A

NEGATIVE RESULT



One line in window 3

Note: In the presence of signs of illness, additional testing is suggested.



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Simple-to-interpret results

B

POSITIVE RESULT



Two lines, one each
in windows 2 and 3

Note: Zoetis provides free confirmatory testing if customers have questions about their positive results. Customers can call Zoetis VMIPS at (888) ZOETIS-1 (963-8471) for more information.



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Trusted customer support

To learn more about the WITNESS Heartworm Test Kit, please visit www.simplysmarterchoice.com.

To order, contact Customer Service at **1-888-ZOETIS-1 (963-8471)** or <https://shop.zoetisus.com>.

If you have additional questions, need further support, or have questions about Zoetis's free confirmatory testing, contact Veterinary Medical Information and Product Support (VMIPS) at **1-888-ZOETIS-1 (963-8471)** or vmips@zoetis.com, or visit www.zoetisus.com/vmips.



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Heartworm Antigen Test Kit

WITNESS® | FeLV-FIV

Feline Leukemia Virus Antigen-
Feline Immunodeficiency Virus Antibody Test Kit

WITNESS® | FeLV

Feline Leukemia Virus Antigen Test Kit

WITNESS® | CPV

Canine Parvovirus Antigen Test Kit

WITNESS® | LH

Luteinizing Hormone Test Kit

WITNESS® | Relaxin

Canine and Feline Pregnancy Test Kit



And now, **WITNESS® Heartworm** —
the latest in accurate, affordable, and simple
point-of-care diagnostic tests from Zoetis

WITNESS® | Heartworm

Heartworm Antigen Test Kit



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References

1. Data on file, Study Report No. DH67W-US-15-026, Zoetis Inc.
2. Data on file, Study Report No. D860Z-US-15-018, Zoetis Inc.
3. IDEXX SNAP® Heartworm RT Package Insert.

Definitions

1. **DiroCHEK®** is an Enzyme-Linked Immunosorbent Assay (ELISA) for the detection of antigen to adult *Dirofilaria immitis* in canine and feline plasma or serum.
2. **Enzyme-Linked Immunosorbent Assay (ELISA)** is a test which relies on enzyme-catalyzed color change reactions and is commonly used to identify antibodies or antigens.
3. **Necropsy** is the post-mortem examination of tissue for presence of infection of *Dirofilaria immitis* and the gold standard for identifying infected animals.
4. **Rapid Immuno Migration (RIM)** generally uses tagged colloidal gold particles as a color signal to detect antibodies, antigens or hormones.

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