



The MiDOG All-in-One Diagnostic Test
Now with Parasites, Biofilms/Toxin Detection + Longitudinal Reporting

MiDOG All-in-One Test: Comprehensive Testing Solution

MiDOG is designed for complex cases where traditional testing may not provide the full picture, including culture-negative infections, mixed infections, recurrent UTIs, chronic otitis, non-healing wounds, dermatologic flares, and high-impact cases where an unresolved infection can progress quickly.

Using whole-genome DNA sequencing, MiDOG analyzes each sample for bacteria, fungi, parasites, virulence genes, and clinically relevant antimicrobial resistance markers. The result is a broader microbial profile that helps clinicians better understand what may be contributing to the case.

By combining broad pathogen detection and resistance insight into one test, MiDOG can help reduce the need for repeat testing, support clearer interpretation, and give veterinary teams more confidence when managing complex, chronic, or acute infections.

The MiDOG All-in-One Test



Two Optional Swab Sizes

Compatible with All Sample Types



Nasal Swabs

Skin Swabs

Urine

Feces

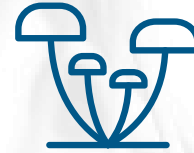
Ear Swabs

And so much more: Blood, Bile, Joint Fluid, BAL, Eyes/Nasal Washes, Oral Swabs, Wound Swabs, Tissue, Nail Clippings, etc.

MiDOG Essential Test: 5-in-One Test



Bacteria



Fungi

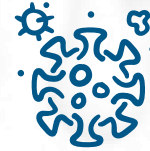


Antibiotic Resistance

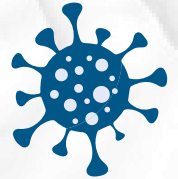
MiDOG Optional Premium Add-Ons



Parasites



Virulence Genes



DNA Viruses

Launching Soon

Included Support With Each Test



Free Veterinary Consultation



Free Return Shipping

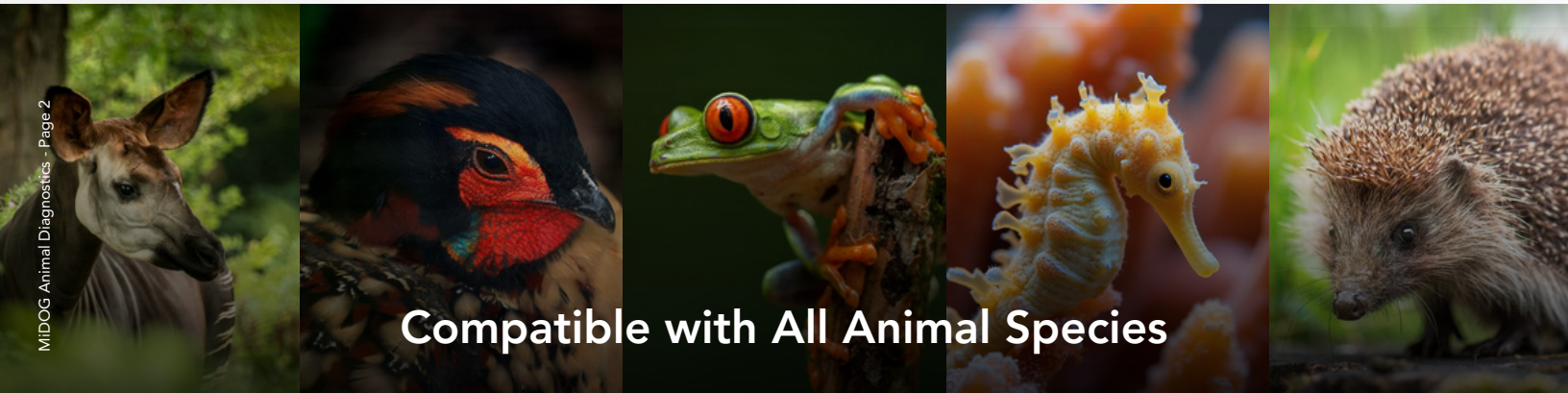


Results in 48 Hours



MiDOG samples are stable at room temperature for up to one year. Collect now. Ship when ready.

Compatible with All Animal Species

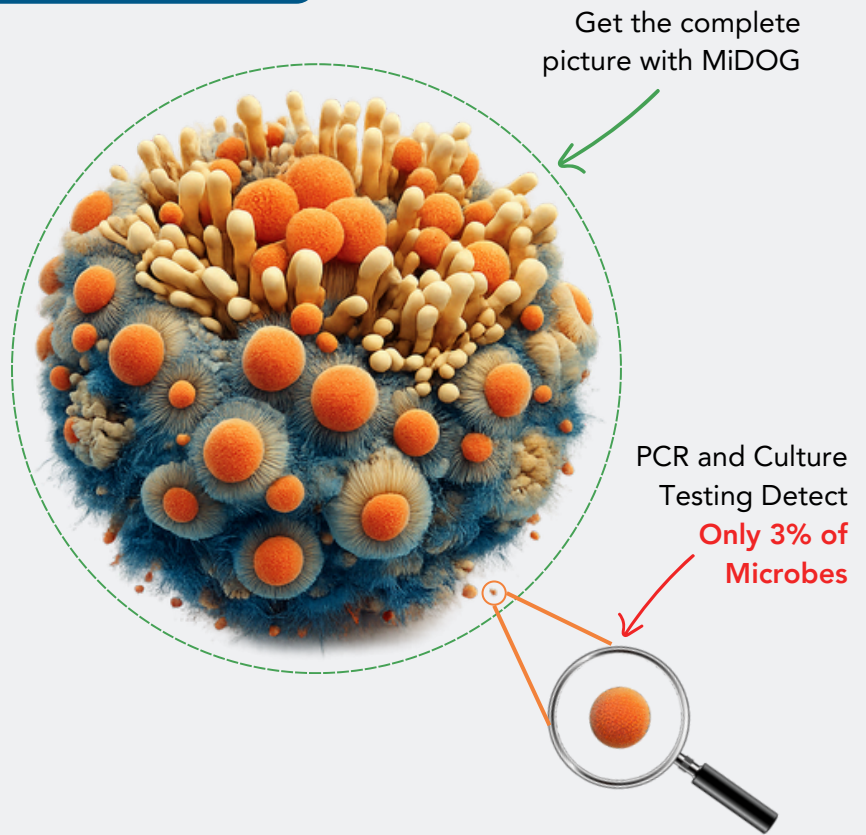


One Test That Looks For A Wide Range of Infections



WE SCREEN EVERY SAMPLE AGAINST OUR DATABASE OF:

- Bacteria: 64,800
- Fungi: 4,100
- Parasites: 4,300
- Antibiotic Resistance Markers: 6,000
- Biofilm Genes: 92
- Toxin Genes: 121



Get the complete picture with MiDOG

PCR and Culture Testing Detect **Only 3% of Microbes**

Advantages of NGS Testing vs Conventional Testing

	ALL-IN-ONE TEST	CULTURE TESTING	PCR TESTING
DNA-Based Precision	✓	✗	✓
Diagnosis of Co-Infections and Biofilms	✓	✗	✗
Microbiome Profiling	✓	✗	✗
Diagnosis of All Pathogens: Bacteria, Fungi and Parasites	✓	✓ Limited to ~3% of all bacteria and fungi	✓ Limited to targeted microbes only
Antibiotic Sensitivity Testing	✓	✓ Limited to ~3% of all bacteria and fungi	✓ Limited to few genes
All-in-One Test	✓	✗	✗

Trusted by veterinarians worldwide

Say Goodbye to PCR Panels. MiDOG Expanded Testing Now Includes Parasites

MiDOG delivers broad, species-agnostic microbial insight from a single sample, helping clinicians and scientists move beyond the limitations of traditional culture and targeted testing when cases don't behave as expected.

How MiDOG Works

MiDOG uses whole-genome sequencing to analyze microbial DNA directly from clinical samples. This approach allows for simultaneous detection of multiple organisms, without requiring prior assumptions about which pathogens may be present.

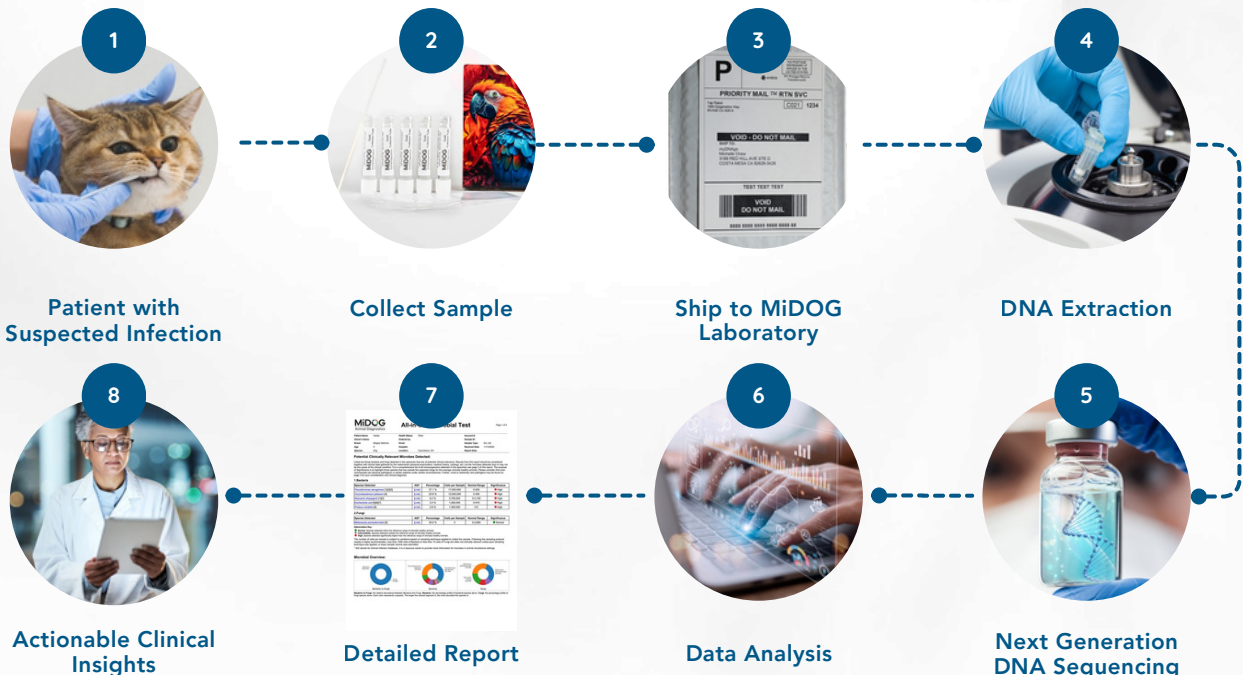
Optional parasite and biofilm/toxin add-on modules allow clinicians to expand insight when deeper investigation is warranted, without changing the core workflow.

MiDOG is designed to complement existing diagnostics, supporting escalation when cases remain unresolved or behave unpredictably

- Broad detection of bacteria and fungi from a single sample
- Parasite add-on testing for expanded detection where clinically indicated
- Biofilm- and toxin-associated markers to support investigation of persistent or treatment-resistant infections
- Species-agnostic results across companion animals, exotics, wildlife, and zoological species
- Increased confidence in complex, chronic, or culture-negative cases

MiDOG is particularly valuable when traditional diagnostics are slow, limited, or return inconclusive results.

The MiDOG Workflow



Comprehensive Reports for Better Treatment Outcomes

- Quantitative detection of aerobic and anaerobic bacterial and fungal species.
- Accurate microbial profiling of the infection site at the time of sampling.
- Expanded antibiotic resistance panels, effective even for unculturable and emerging pathogens.

By sequencing a pathogen's entire genome, WGS enables strain-level identification, deeper genetic insights, and a more complete understanding of infections.



Comparison Report

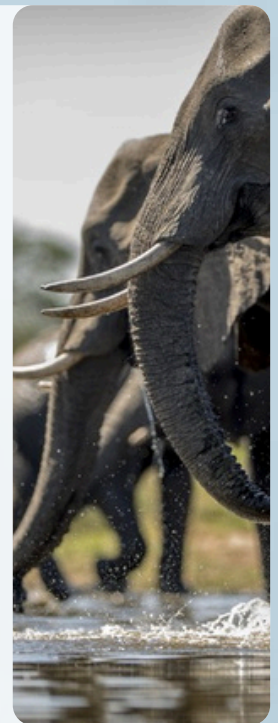
Use the Comparison Report to compare microbial profiles across two different samples, including samples from different animals, body sites, or environmental sources.

Common use cases:

- **Animal-to-animal comparisons:** Identify microbes that are shared, unique, or disproportionately represented between affected and clinically normal animals in the same setting.
- **Case-to-environment comparisons:** Compare patient samples with water or enclosure samples to investigate possible exposure sources.
- **Cross-site comparisons:** Evaluate how microbial patterns differ across sample types within the same case context.

Built For the Needs of Zoological Medicine

- Clinical diagnostics when signs persist or results conflict
- Wellness screening to establish baselines and spot early change
- Surveillance testing for routine monitoring and trend tracking
- Outbreak monitoring to support fast response and containment
- Dietary surveillance to assess feed-related microbial risk



Time-Series Report

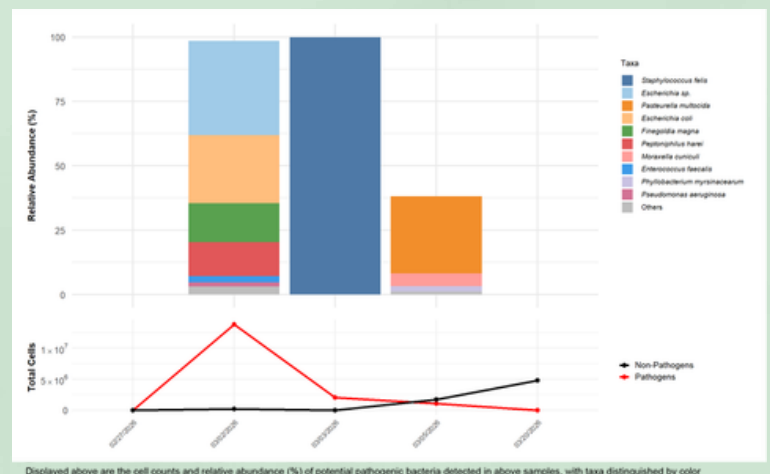
Track infection dynamics over time in one unified report

The Time-Series Report is designed for chronic, recurrent, or difficult infections where trend is the story.

Common use cases:

- Recurrent or complicated UTIs
- Chronic otitis and dermatology cases
- Wounds that stall or re-open
- Zoo/aquarium cases where monitoring is essential

Treat the trajectory, not just the moment.



The MiDOG All-in-One Test is Peer Reviewed and Validated

There are approximately 20,000 publications on DNA sequencing-based technologies that have been applied in the clinical diagnosis, mostly in human medicine. Unlike targeted PCR, DNA sequencing enables the identification of novel pathogens, the detection of disease-associated biomarkers, and the assessment of microbial dysbiosis that contributes to infection.

The scientists at MiDOG actively participate in research collaborations with veterinary professionals and have published over 50 peer reviewed manuscripts in journals like: American Journal of Veterinary Research, Veterinary Dermatology, Journal of Veterinary Microbiology, and more.

Continued efforts are underway to explore how the microbiomes of exotic animals affect disease, and the scientists at MiDOG Animal Diagnostics are at the forefront of health and disease discovery together with veterinarians.

The MiDOG Test is Validated in Over 50 Peer-Reviewed Publications:



Scan Here to Access Our Publications



Meet Our Team of Experts



Dr. Michael Kavanagh, DVM

Saddleback Animal Hospital



Dr. Aline Hoffmann, DVM

University of Florida



Dr. Micah Kohles, DVM

Woodland Animal Hospital



Dr. Krista A. Keller, DVM, Dip ACZM

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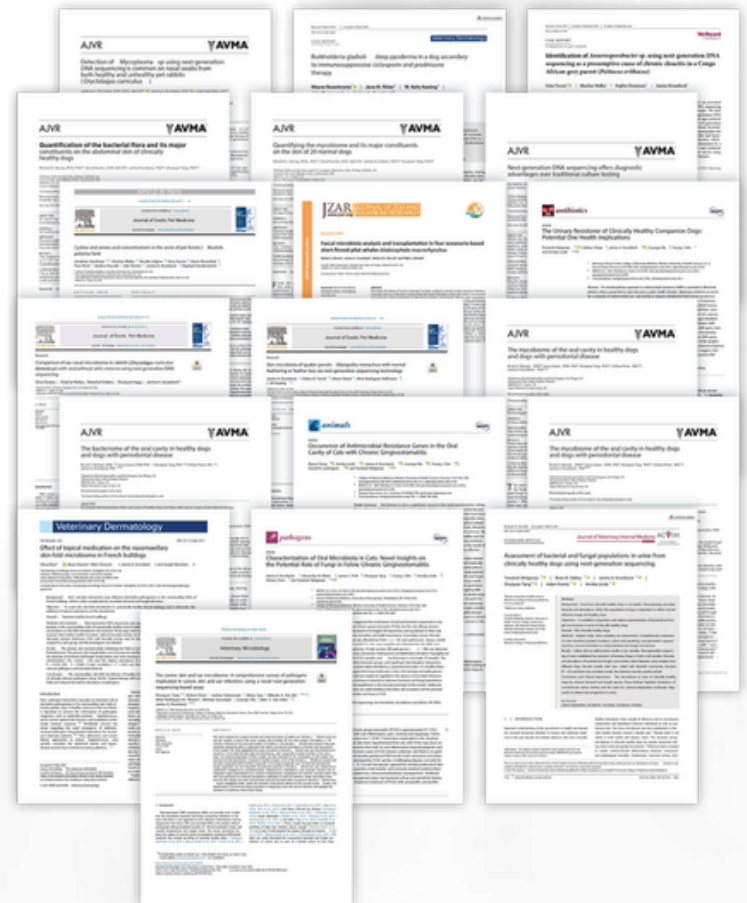
Animal Dermatology Group



Dr. Curtis Huttenhower, PhD

Harvard T.H. Chan School

MiDOG Advisory Board



The Importance of the All-in-One Test in Veterinary Care for Exotic Species

Research Published in AJVR



In a study of 13 exotic animal species, culture tests missed 15% of bacterial and a staggering 81% of fungal pathogens, while Next-Generation Sequencing (NGS) detected everything.

If you are not using NGS, you are missing infections. Traditional methods can miss clinically relevant pathogens, especially fungi, delaying diagnosis and treatment.

STUDY TAKEAWAY

The AJVR study reported that culture testing failed to diagnose a substantial number of bacterial and fungal pathogens detected by NGS in exotic animal samples. The authors concluded that these findings highlight the limitations of traditional culture-based testing and the advanced utility of NGS-based diagnostics in exotic animal medicine.

For exotic patients, where cultures may be challenging and PCR panels are inherently limited, broad NGS testing can provide more complete pathogen detection from a single sample. That means fewer missed organisms and more informed treatment decisions in complex cases.

Pathogens missed by culture:

- **Strict and facultative anaerobic bacteria** (e.g., *Enterococcus*, *Salmonella*, *Helicobacter*, *Klebsiella*...)
- **Slow growing bacteria** (e.g., *Mycoplasma*, *Mycobacterium*...)
- **Gram positive bacteria** (e.g., *Corynebacterium*...)
- **Novel and rare pathogens** (e.g., *Riemerella*, *Granulicatella*, *Fusarium*...)
- **All fungi** (e.g., *Nannizziosis*, *Fusarium*, *Malassezia*, *Cryptococcus*, *Trichosporon*, *Candida*, *Aspergillus*...)

Study citation: Damerum A, Malka S, Lofgren N, Vecere G, Krumbek JA. Next-generation DNA sequencing offers diagnostic advantages over traditional culture testing. *American Journal of Veterinary Research*. 2023;84(8).

https://avmajournals.avma.org/view/journals/ajvr/84/8/ajvr.23.03.0054.xml?tab_body=pdf

Bring comprehensive NGS testing into your clinic. Contact the MiDOG team to support exotic and difficult-to-resolve cases.

Email: sales@midogtest.com

MiDOG

Animal Diagnostics

Reach out to our sales team for all pricing inquiries

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Stay up-to-date. Follow our tracks on:



Our International Distributors:

Australia:

Exotic Vet Support

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Website: www.midogtest.com

Canada:

BioVet

Email: result@biovet-inc.com

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Partner of:



As part of our commitment to innovation and scientific excellence, MiDOG has partnered with Hill's Pet Nutrition. This collaboration enhances our ability to explore the microbiome in deeper ways, ensuring our All-in-One Test continues to evolve with the most up-to-date insights in veterinary nutrition and diagnostics.