

GIARDIA VET CHEK™

for Diagnosing *Giardia* spp.
in Dogs and Cats



Abstract

- Need for an USDA-licensed micro-well ELISA optimized for use in dogs and cats
- 96 determinations per plate making large sample runs easy
- Objective, sensitive and specific, and easy to interpret

Methods

- *GIARDIA VET CHEK™* was evaluated and compared to currently available diagnostic methods (Saleh et al., 2018).
- 388 fecal samples (127 feline and 261 canine) from Colorado, Oklahoma, and Virginia State Veterinary Schools were tested for *Giardia duodenalis* by:
 - Microscopy: zinc-sulfate (ZnSO₄) centrifugal fecal flotation
 - TECHLAB *GIARDIA VET CHEK™*
 - IDEXX SNAP™ *Giardia* Test
 - Abaxis VetScan® *Giardia* Antigen test
 - MERIFLUOR® *Cryptosporidium/Giardia* direct immunofluorescent assay (reference standard)
- Antigen-positive, microscopy-negative results resolved by IFA

Results

- The *GIARDIA VET CHEK™* test out-performed the Abaxis VetScan® and was equivalent to the IDEXX SNAP™.

Fecal Floatation Compared with:		Microscopy*		Sensitivity	Specificity	PPV	NPV	Correlation
		+	-					
VET CHEK™	+	155	8	96.3%	96.5%	95.1%	97.3%	96.4%
	-	6	219					
SNAP™	+	148	3	93.1%	98.7%	98.0%	95.4%	96.4%
	-	11	226					
VetScan®	+	125	2	81.7%	99.1%	98.4%	89.3%	92.3%
	-	28	233					

*Note: Discrepant samples resolved with IFA

Conclusions

- ELISAs, in combination with direct smear and centrifugal fecal flotation, are recommended by the Companion Animal Parasite Council™ for testing patients with clinical signs.
- The *GIARDIA VET CHEK™* test:
 - Is USDA-licensed and optimized for use in dogs and cats
 - Is highly sensitive and specific with easy to interpret results
 - Contains a breakaway plate to enable efficient, customized batching
 - Can be run manually or automated within 90 minutes
 - Works with fresh or frozen canine or feline samples



For more information, visit **techlab.com**
or call **1-800-TECHLAB** (832-4522); outside the US call **540-953-1664**

PROVEN PERFORMANCE IN
GI DISEASE DIAGNOSTICS

References

Companion Animal Parasite Council™ website: (www.CAPCvet.org/guidelines/giardia)
Saleh, M.N. (2018). Comparison of diagnostic techniques for detection of *Giardia duodenalis* in dogs and cats. (Submitted for publication)