

AFOSA has 20 years of experience developing and producing enzyme immunoassays for use in veterinary diagnostics, focusing on the detection of antibodies to parasitic and vector-transmitted pathogens.

Ensure reliable and consistent results through harmonized protocols and reagents on low to high-throughput applications

- Novel commercial ELISA portfolio, including Babesia and Sarcoptes assays
- High performing assays with very good sensitivity and specificity, validated by the German authorities (FLI)
- Harmonized protocols with user-friendly reagents and a flexible microplate and reagents system

The AFOSA portfolio overview





					et II	
AFOSA assay	ANAPLASMA ELISA DOG	BABESIA ELISA DOG	EHRLICHIA ELISA DOG	LEISHMANIA ELISA DOG	SARCOPTES ELISA DOG	FCoV ELISA CAT
Target	Anaplasma phagocy- tophilum IgG antibodies	Babesia canis infantum IgG antibodies	Ehrlichia canis IgG antibodies	<i>Leishmania</i> <i>infantum</i> IgG antibodies	Sarcoptes scabei IgG antibodies	Feline Coronavirus Type I & II IgG antibodies
Technology	Indirect ELISA	Indirect ELISA	Indirect ELISA	Indirect ELISA	Indirect ELISA	Indirect ELISA
High perform	ing assays					
Specificity	97%	100%	99.2%	99.9%	94.6%	97.7%
Sensitivity	92.5%	96.3%	95.7%	88.4%	92.1%	96.5%
Sample size (sera)	154	287	696	50/30	113	651



A reliable, high-performing ELISA portfolio

AFOSA ANAPLASMA-ELISA DOG





High performing assays					
Sensitivity	Specificity	Samples			
92.5%	97%	154 sera			

Detect *Anaplasma phagocytophilum* IgG antibodies in blood, serum and plasma samples from dogs 10 to 14 days post-infection (2 to 5 days after the morulae are detectable in dyed blood smears).

The intended uses are to confirm the presence of *Anaplasma* antibodies in dogs with clinical signs and prior exposure to ticks in endemic areas

For screening before blood transfusion since cases of Anaplasma transmission through blood transfusions were reported.

AFOSA BABESIA-ELISA DOG





High performi	High performing assays					
Sensitivity	Specificity	Samples				
91.6%	95.4%	671 sera				
96.3%	100%	287 sera				

Detect *Babesia canis* IgG antibodies in dog blood serum or plasma samples 7 to 8 days after infection and 3 days after the first clinical symptoms.

The intended uses are to confirm the presence of *Babesia antibodies* in dogs with clinical signs and prior exposure to ticks in endemic areas .

For screening before blood transfusion since cases of Babesia transmission through blood transfusions were reported



A reliable, high-performing ELISA portfolio

AFOSA ERLICHIA-ELISA DOG





High performing assays

Sensitivity Specificity Samples

95.7% 99.2% 696 sera

Detect *Ehrlichia canis* IgG antibodies in dog blood, serum and plasma samples between 7 and 28 days after initial infection.

The intended uses are to confirm the presence of *Ehrlichia* antibodies in dogs with clinical signs and prior exposure to ticks in endemic areas, to screen after dog bite injuries/tick bites, and to screen dogs before mating.

AFOSA LEISHMANIA-ELISA DOG





High performing assays				
Sensitivity	Specificity	Samples		
88.4%	99.5%	80 sera		

Detect *Leishmania infantum* IgG antibodies in dog blood, serum and plasma samples. Note that seroconversion can take 5 months on average and that dogs with clinical symptoms (anemia and hyperproteinemia) are more likely to be antibody positive.

The intended use is to confirm the presence of *Leishmania* antibodies in dogs with clinical signs and prior exposure to sand flies in endemic areas. It is also recommended for routine screening as part of animal import testing.

AFOSA SARCOPTES-ELISA DOG





High performing assays				
Sensitivity	Specificity	Samples		
92.1%	94.6%	113 sera		

Detect *Sarcoptes scabiei* var. *canis* IgG antibodies in dog blood, serum and plasma samples around 3 weeks after infection.

The intended use is as a differential diagnosis test because pruritus, a pathognomonic sign for *Sarcoptes* mange infection, is also associated with several other skin conditions.

AFOSA FCoV-ELISA CAT





High performing assays					
Sensitivity	Specificity	Samples			
96.5%	97.7%	651 sera			

Detect Feline Coronavirus serotype I and II IgG antibodies in cat blood, serum and plasma samples. Note that the incubation period varies from weeks to months. In experimental infections, seroconversion occurred after 10 days.

The intended use is to confirm the presence of antibodies to FCoV in cats with or without clinical signs.



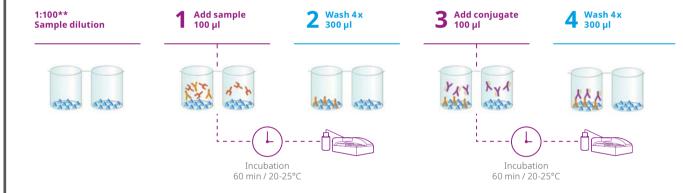
Improve workflow efficiency to ensure consistent results

User-friendly reagents:

Ready-to-use		Positive Control		Ready-to-use
Ready-to-use		Negative Control		Ready-to-use
Ready-to-use		Wash Buffer		Dilution 1:10
	Ready-to-use	Ready-to-use	Ready-to-use Negative Control	Ready-to-use Negative Control

- · Ready-to-use reagents*
- · Color-coded caps
- · 18-months shelf life

Harmonized and convenient protocol:



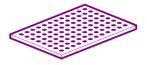
Easy result interpretation:

Test results interpretation	ANAPLASMA ELISA DOG	BABESIA ELISA DOG	EHRLICHIA ELISA DOG	LEISHMANIA ELISA DOG	SARCOPTES 2001 ELISA DOG	FCoV-ELISA CAT
Negative	TE < 8	TE < 14	TE < 14	TE < 7	TE < 10	TE < 34
Inconclusive	TE 8 – 11	TE 14 – 19	TE 14 – 29	TE 7 – 12	TE 10 – 15	TE 34 – 43
Positive	TE > 11	TE > 19	TE > 29	TE > 12	TE > 15	TE > 43

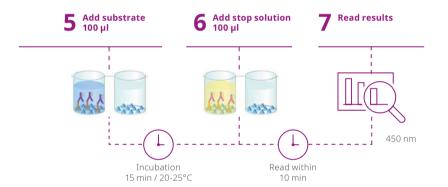
^{*} Except wash buffer 1:10

^{**} Except Leishmania ELISA sample dilution 1:300

Flexible system:



- · Interchangeable reagents between assays
- · Microplates with 12 individual strips of 8 wells



- · A single protocol for all AFOSA ELISAs**
- · Validated for plasma or serum samples
- Unified 100 µl pipetting throughout protocol
- Tests performed at room temperature (18-25°C)
- Suitable for automated ELISA instruments

Test validati	on	8

ODPC > 0.8 < 2.8
P < 20
OD < 0.1

Why choose AFOSA ELISA kits over IFA techniques?

Although IFA is considered standard for *Anaplasma, Ehrlichia* and *Babesia* detection, ELISA is preferred by referral laboratories because it provides:

- · Consistent results while IFA result interpretation is operator dependent
- · Lower running costs since it can be automated



- High-performing assays
- Validated assays

- · User-friendly reagents
- Harmonized and convenient protocol
- · Flexible system

Ordering information[‡]

			Cat. no.
Pathogen investigated	Product	Technology	(number of ELISA plates)
Anaplasma phagocytophilum (Anaplasmosis)	ANAPLASMA-ELISA DOG	ELISA	AED-KIT (1)
Babesia canis (Babesiosis)	BABESIA-ELISA DOG	ELISA	BED-KIT (1)
Ehrlichia canis (Ehrlichiosis)	EHRLICHIA-ELISA DOG	ELISA	EED-KIT (1)
Feline Coronavirus (Feline Infectious Peritonitis)	FCoV-ELISA CAT	ELISA	FEC-KIT (1)
Leishmania infantum (Leishmaniosis)	NEW! LEISHMANIA-ELISA DOG	ELISA	LED-KIT (1)
Sarcoptes scabiei var. canis (Sarcoptic Mange)	NEW! SARCOPTES-ELISA 2001® DOG	ELISA	SED-KIT (1)

[‡]Product availability/distribution: Outside the U.S. and Canada

Get in touch with our experts!

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