IDEXX **SNAP®** Tests		Species	Kit size (pc)	Ag/ Ab[1]	Sample [2]	Storage	Time to read result	Sensitivity 95% CL [3]	Specificity 95% CL [3]	When to test	Dilution Sample/ Conjugate	Pictures of positive tests
VECTOR-BORNE	**Heartworm**	*Dirofilaria immitis*		5 / 15 / 30	Ag	Blood [2]	2-25˚C	8	98 % (94,0 -100 %)	100 % (98,0 -100 %)	5-7 months after exposure	3 / 4	
	4Dx®	**Anaplasma** *Anaplasma phagocytophilum, Anaplasma platys*		5 / 15 / 30	Ab	Blood [2]	2-8˚C	8	99,1 % (96,5 -100 %)	100 % (98,0 -100 %)	From 3-6 weeks after exposure. If symptomatic and 4Dx® test is negative, confirm with PCR	3 / 4	
		Heartworm *Dirofilaria immitis*		5 / 15 / 30	Ag	Blood [2]	2-8˚C	8	99,2 % (94,8 -100 %)	100 % (98,0 -100 %)	5-7 months after exposure	3 / 4	
		Lyme Disease *Borrelia burgdorferi* C_6		5 / 15 / 30	Ab	Blood [2]	2-8˚C	8	98,8 % (95,4 - 99,9 %)	100 % (98,0 -100 %)	3-6 weeks after exposure	3 / 4	
		Ehrlichia *Ehrlichia canis*		5 / 15 / 30	Ab	Blood [2]	2-8˚C	8	96,2 % (90,1- 98,8 %)	100 % (98,0 -100 %)	1-3 weeks after exposure	3 / 4	
	Leishmania	*Leishmania infantum*		10 / 30	Ab	Blood [2]	2-8˚C	6	96,3 %	99,2 %	2-3 months after exposure	2 / 6	
RETROVIRUS	**Feline Combo**	**FeLV** p27		5 / 15 / 30	Ag	Blood [2]	2-8˚C	10	100 % (95,3 -100 %)	98,6 % (95,7 - 99,7 %)	Minimum of 28 days after exposure	3 / 4	
		FIV p15, p24 and gp40		5 / 15 / 30	Ab	Blood [2]	2-8˚C	10	99,2 % (95 -100 %)	100 % (97,8 -100 %)	Minimum of 60 days after exposure	3 / 4	
	FeLV	**FeLV** p27		5 / 15 / 30	Ag	Blood [2]	2-8˚C	10	100 % (91,3%–100%)	99,2 % (95,4%–100%)	Minimum of 28 days after exposure	3 / 4	
CARDIAC	**Feline pro BNP**	**NTproBNP**		5 / 10	NT-proBNP	Blood	2-8˚C	10	85%	85%	When you hear a murmur or suspect heart disease	3 drops sam, 5 drops con.	
FECAL	**Parvo**	Canine Parvovirus 2a, 2b, 2c		5	Ag	Faeces	2-25˚C	8	100 % (94,0 -100 %)	100 % (98,0 -100 %)	4-8 days after exposure	5 drops of the sample/conjugate solution	
	Giardia	*Giardia lamblia*		5 / 15	Ag	Faeces	2-8˚C	8	92 - 96 % (87,0 - 99,0 %)	99 % (96,0 -100 %)	5-8 days after exposure	5 drops of the sample/conjugate solution	
PANCREATITIS	**cPL**	Canine Pancreas-specific Lipase		10	N/A	Serum	2-8˚C	10	94 % [4]	97,4 % [4]	When an abnormal result is found, the cPL/fPL levels should be quantified with the complimentary Spec cPL/fPL® test at your IDEXX Reference Laboratory	3 / 4	
	fPL	Feline Pancreas-specific Lipase		10	N/A	Serum	2-8˚C	10	87 %	100 %		3 / 4	
FOAL	**Foal IgG**	Immunoglobulin G (IgG)		10	–	Blood [2]	2-7˚C	7	88 %	90 %	First 12-18h of life	see instruction	<400 mg/dL

Samples must be at room temperature (15°–30°C) before beginning the test procedure.

[1] Antigen (Ag) or Antibody (Ab) [2] Blood (Anticoagulant-Treated Whole Blood; Serum/Plasma) [3] CL= Confidence Limit [4] Correlation with Spec cPL® test

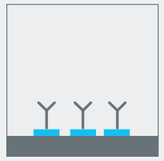
IDEXX LABORATORIES

ELISA Technology explained

SNAP® Rapid Assay Test – ELISA Technology (Enzyme-linked immunosorbent Assay)

- Antigen
- Conjugate
- RBC
- Platelets
- Antibody

1 Antigen is bound when the enzyme-linked antibody conjugate and blood sample are combined.

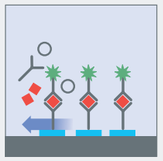


2 The matrix is pre-coated with antigen specific antibodies.

3 The conjugate and the antigen bind to the matrix-bound antibody, forming a “sandwich”.

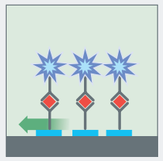
4 The device is activated.

An example of an antigen SNAP® test



5 The wash step removes non-specific, unbound conjugate and blood sample components from the background matrix, clearing the way for the final step.

Wash step = better specificity



6 The substrate moves across the cleared matrix. The substrate reacts with the conjugate to AMPLIFY the presence of antigen for increased sensitivity and an unmistakable, clear blue read.

Amplification: better sensitivity

The IDEXX SNAP® range of in-house tests harbours ELISA technology. This technology correlates to reference laboratory quality and is considered to be the gold-standard for in-house diagnostics. SNAP® devices detect for antigen and/or antibody in blood or faeces of the animal. SNAP® has two unique characteristics that ensure highest sensitivity and specificity: the wash- and amplification step.

In Summary:

- Gold standard ELISA technology = Reference Laboratory Technology
- Drives high sensitivity by wash and amplification step
- SNAP® offers multi analyte platform: 1 drop of blood tests accurately for more diseases in one go

Competing assays

They use lateral flow technology that relies on clumping gold particles to reveal test results. Additionally, lateral flow tests do not include a wash step, making results difficult to interpret due to unbound blood components that obscure the read-line.

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