

DIAGNOSTICS

product catalog 2021 / 2



**VET
EXPERT**

BASED ON EVIDENCE










Vet Expert has promoted animal health and wellbeing since 2008.


Our mission is to support global veterinary professionals and pet parents in their daily decisions concerning pet care measures and therapies so every animal can look, feel and perform at its best.

Our products are now chosen by vets, breeders, and pet owners in more than 20 countries. In Poland, VetExpert ranks as the most trusted brand among veterinary doctors. High product quality and efficacy have already won us wide acclaim and many awards, and the concept behind our portfolio, "Vet Expert. Based on Evidence" guarantees tangible, science-based results.

No other brand offers such a broad range of specialist products:

-  dietary supplements for companion animals
-  rapid diagnostic tests for dogs, cats, and farm animals
-  an innovative line of cosmetics
-  unique hygiene products
-  veterinary diets and maintenance pet food
-  compound feeds for farm animals

 We meet the most stringent production quality requirements. Our products are manufactured exclusively in plants with the highest pharmaceutical quality certificate, GMP (Good Manufacturing Practice), and the process conforms to the same standards as those applied in the production of human medication. All production stages are strictly controlled and supervised.

 Product compositions are designed in cooperation with veterinary doctors and scientists.

Thank you for trusting us.
We are constantly working on
new innovations.





Rapid diagnostic tests in everyday practice

In medicine the origin of rapid bedside tests goes back to the 1960s, when the first pregnancy tests appeared. The tests of such type are widely used today for example in the diagnosing flu, tonsillitis or *Helicobacter pylori*. For these tests the immunochromatography (IC) method is applied.

The IC tests, seemingly unremarkable, contain carefully selected immunogold labelled monoclonal antibodies under a plastic coating. The test line of the plate is coated with antibodies against the diagnosed disease, whilst the control line – with antibodies against the immunogold labelled monoclonal antibodies. The result is only valid when the control line is present. If the tested material contains the antibodies or antigen which are looked for, two lines – the test and control one should appear on the plate.

The majority of rapid tests are qualitative – irrespectively of the degree of staining of the test line (whether the line is thin or thick) the result of the test is positive. The IC method does not have any special requirements: the tests may be stored in a room temperature and the expiry date is long – it is usually about two years. Rapid diagnostic tests provide an important tool in everyday practice, allowing for a precise diagnose to be made within a few minutes.

The test accuracy depends on the quality of the tests, but also on the appropriate moment of performing the test and the characteristics of the disease which is being looked for, as well as the quality of the collected sample.





-
- CaniV-4
 - CaniV-4 Leishmania
 - Heartworm Ag
 - E.canis Ab
 - Leishmania Ab
 - CDV Ag
 - CIRDC-3 Ag
 - C. Brucella Ab
 - Total IgE Ab
 - CPV Ag
 - CCV Ag
 - CPV/CCV Ag
 - CPV/CCV/Giardia Ag



-
- FeLV Ag
 - FIV Ab
 - FIV Ab/FeLV Ag
 - Toxoplasma Ab
 - FCoV Ab
 - FCoV Ag
 - FCoV Ag/Ab
 - FPV Ag
 - FPV/FCoV/Giardia Ag
 - FeliCheck-3
 - Feline T4



-
- BoviD-4 Ag
 - Cryptosporidium Ag
 - Clostridium perfringens Ag
 - Vet Expert Bovine KG Check glucometer
 - Vet Expert Glucose Test Strip
 - Vet Expert Keton Strip



-
- Giardia Ag
 - Vet Expert BG Vet Pets glucometer
 - Vet Expert BG Vet
 - Blood Glucose Test Strips
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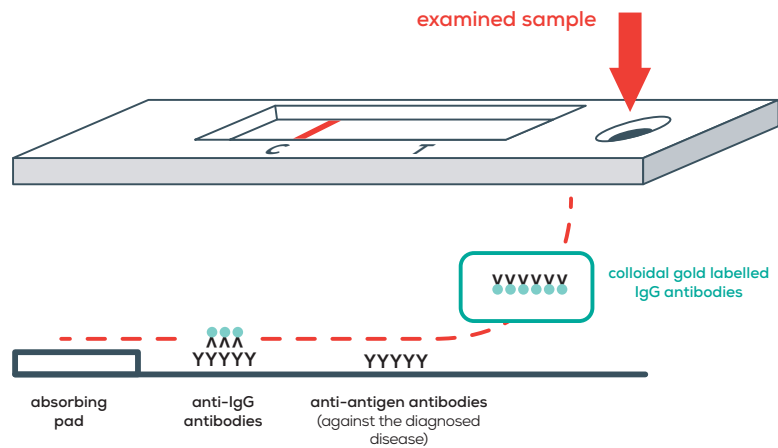
RAPID DIAGNOSTIC TESTS IN THE OPINION OF VETEXPERT

20-25

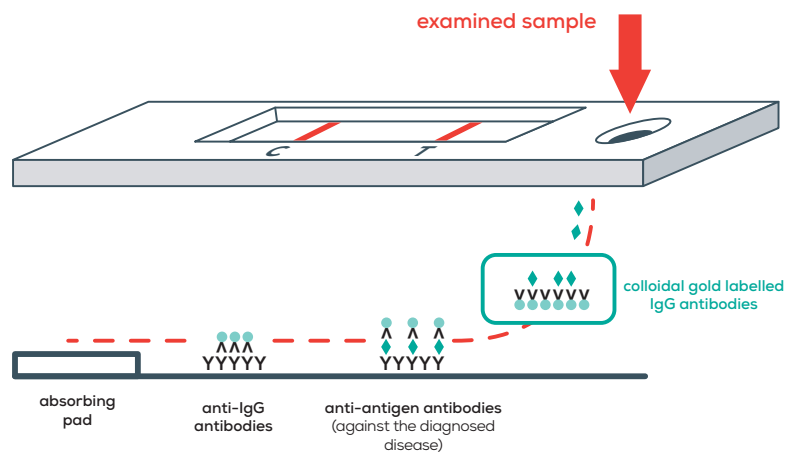
The result of a diagnostic test is an effective and attractive tool in everyday practice of a veterinary surgeon. The test allows for a rapid diagnosis and immediate implementation of the appropriate therapy. Vet Expert's rapid diagnostic tests are top-shelf products, which pass a number of quality controls, necessary for their introduction into the market.

TEST PLATES

Negative result



Positive result



All the **Vet Expert** tests are based on immunochromatographic method (IC). Immunochromatography is a widely-used immunological method – it is a so-called “wet method”, which means that a precise result remains as long as the nitrocellulose membrane is wet and this time period is specified in the leaflet attached to each test. In some sporadic cases when the test dries out, the second line may show, yet this does not mean that the result is positive! The test line contains antibodies against the diagnosed disease, whilst the control line – the antibodies against the immunogold labelled monoclonal antibodies. All the **Vet Expert** tests are made in the way that makes it possible to confirm or exclude the presence of a disease with the maximum likelihood.

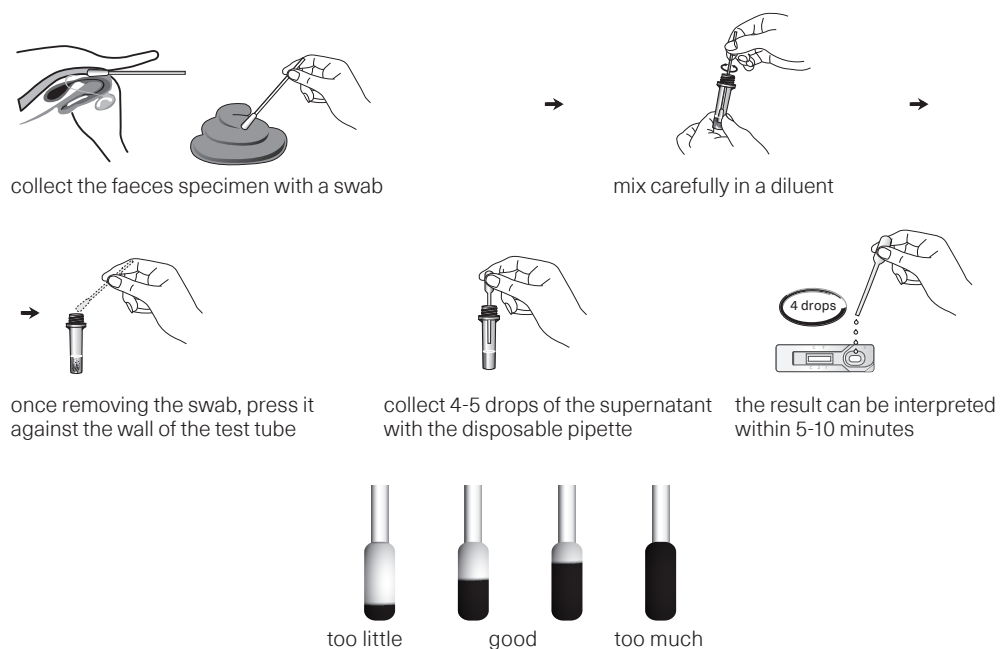
The presence of the control line is necessary for the result to be correct. If the sample material contains antibodies or antigen, two lines are present – the test line and the control line.

The majority of rapid tests are qualitative – irrespectively of the degree of staining of the test line (whether the line is thin or thick) the result of the test is positive. It must be remembered NOT TO interpret the test result after the lapse of the time period specified in the test leaflet!

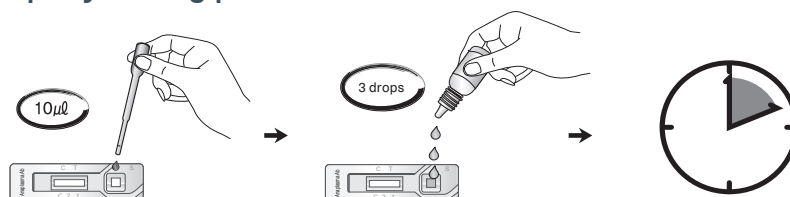
THE CHARACTERISTICS OF THE METHOD:

- High reliability
- Rapid result: 5-10 minutes
- Storage in temperature: 2-30°C
- Long shelf-life of the tests

Exemplary testing procedure: faeces



Exemplary testing procedure: blood

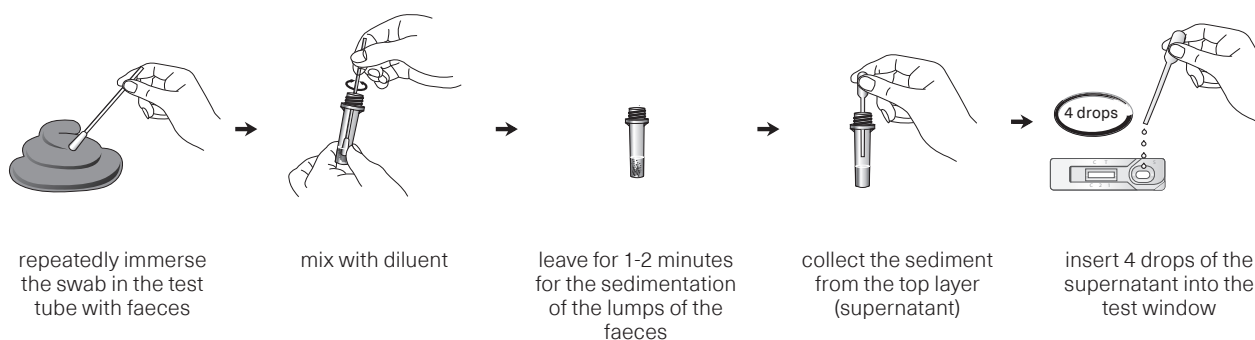


What to do if the test gets clogged?

Sporadically it may happen that a test, done with a faeces sample, gets clogged – most often this concerns the VetExpert Giardia Ag test. Why? The weaving of the mesh in the window for the drops of the sample in the tests for faeces is denser than in other ones, so as to filter an antigen from the sample more effectively. As a result, when the inserted sample is too dense, the test may get clogged – the text does not suck in the sample. In order to check whether the sample was too dense, a new test should be opened and only the diluent should be inserted – if the test works correctly, it means that the sample was too dense.

How to avoid clogging

Especially in the case of the Giardia Ag test, it is recommended to immerse the swab in the sample(s) of the faeces repeatedly. The excess of the material should be wiped against the wall of the test tube with the faeces and then the swab wetted out and the sample, collected with the swab, should be mixed in the diluent. Then the diluent should be left out for 1-2 minutes in a closed tube so that the faeces should drop on the bottom of the tube. The sediment from the top of the tube, without the lumps of the faeces (supernatant) should be collected for the test. If the test is done in such a way it will definitely not get clogged!



DIAGNOSTICS OF VECTOR DISEASES



Pathogen	Vector	Transmission time	The possibility of detecting antibodies with the CaniV-4 test (the period calculated from the moment of infecting)	Monitoring the treatment from the moment of starting the therapy until the cure (the expected negative result of the CaniV-4 test)	Clinical symptoms	Laboratory signs
<i>Anaplasma phagocytophilum</i>	Ixodes spp.	36-48 hours	after 14 days	the antibodies may persist for the entire life, the test result may be positive in spite of the lack of the disease	fever, fatigue, diarrhoea, vomiting, joints pain	moderate thrombocytopenia, IMHA
<i>Anaplasma platys</i>	Rhipicephalus sanguineus	36-48 hours			fever	cyclic thrombocytopenia
<i>Borrelia burgdorferi sensu lato</i>	Ixodes spp.	~24 hours	> 40 day	after about 3 months	often subclinical, fever, decrease of appetite, joints pain, loss of weight	thrombocytopenia, hyperglobulinaemia
<i>Ehrlichia canis</i>	Rhipicephalus sanguineus, Ixodes ricinus, Dermacentor spp.	< 3 hours	From the 7th day (in some dogs, this is an individual variability – from 28th day)	individually after 3-9 months	often subclinical, fever, loss of weight, enlarged lymph nodes, splenomegaly	thrombocytopenia, non-regenerative anaemia, hyperglobulinaemia, azotaemia, APTT prolongation, bone marrow hypoplasia or aplasia

VECTOR – BORNE DISEASES

Caniv-4



Detects antigens of *Dirofilaria immitis* and antibodies against *Ehlichia canis*, *Borelia burgdorferii*, *Anaplasma spp.*

Sensitivity:
Heartworm 99.9%, *E.canis* 98.2%,
Lyme 93.0%, *Anaplasma* 96.1%

Specificity:
Heartworm 99.9%, *E.canis* 99.9%,
Lyme 98.0%, *Anaplasma* 99.3%

Packaging: 5 units



Caniv-4 (Leishmania)



Detects antigens of *Dirofilaria immitis* and antibodies against *Ehlichia canis*, *Leishmania*, *Anaplasma spp.*

Sensitivity:
Heartworm 99.9%, *E.canis* 98.2%,
Leishmania 97.2%, *Anaplasma* 96.1%

Specificity:
Heartworm 99.9%, *E.canis* 99.9%,
Leishmania 99.8%, *Anaplasma* 99.3%

Packaging: 5 units



Heartworm Ag



Detects antigens of *Dirofilaria immitis*

Sensitivity:
99.9%

Specificity:
99.9%

Packaging: 2/5/10 units



The key:



Leishmania Ab



Detects antibodies against *Leishmania*

Sensitivity:
97.2%

Specificity:
99.8%

Packaging: 2/5/10 units



E.canis Ab



Detects antibodies against *E.canis*

Sensitivity:
98.2%

Specificity:
99.9%

Packaging: 5 units



PROPER DIAGNOSIS, BETTER DECISIONS

MAIN CAUSES

- blood loss
- increased breakdown or destruction of red blood cells
- production disorders of red blood cells and hemoglobin

BONE MARROW'S RESPONSE

- regenerative
- non-regenerative

Total reticulocytes > 1%

<h4>CORRECTED RETICULOCYTE PERCENTAGE</h4> $\left(\frac{\text{patient's Hct (\%)}}{\text{average Hct (\%)}} \right) \times \% \text{ of reticulocytes}$ <p>average Hct: dog – 45%, cat – 37%</p> <p>dog > 1% cat > 0,6% → regeneration</p>	<h4>ABSOLUTE RETICULOCYTE COUNT</h4> <p>RBC (mIn) x % of reticulocytes</p> <p>dog > 80,000/μl cat > 60,000/μl → regeneration</p>
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ANEMIA ↓ RBC, Hct, Hb

RED BLOOD CELLS INDICES

<h4>MCV ↔ MCHC ↔</h4> <ul style="list-style-type: none"> • hemolytic or hemorrhagic anemia (pre-regenerative phase) • iron deficiency anemia (initial phase) • endocrine diseases (hypothyroidism, hypoadrenocorticism) • chronic inflammation and neoplasia • chronic kidney disease • pure red blood cell aplasia • bone marrow aplasia or hypoplasia 	<h4>MCV ↑ MCHC ↔</h4> <ul style="list-style-type: none"> • regenerative anemias • FeLV infection • vitamin B12 deficiency • erythroleukemia and myelodysplastic syndrome • non-regenerative immune-mediated anemia and/or bone marrow fibrosis • hyperthyroidism in cats • poodle macrocytosis (toy and miniatures dogs without anemia)
<h4>MCV ↓ MCHC ↔/↓</h4> <ul style="list-style-type: none"> • chronic iron deficiency • hepatic failure • portosystemic venous shunts • healthy Akitas and Shibas 	<h4>MCV ↑ MCHC ↓</h4> <ul style="list-style-type: none"> • regenerative anemia with high value of reticulocytes • hereditary stomatocytosis in dogs • increased erythrocytic osmotic fragility in Abyssinian and Somali cats • false results – long term blood storage

SEVERITY (Hct)

<h4>MILD</h4> <p>DOG 30–36%</p> <p>CAT 20–24%</p>
<h4>MODERATE</h4> <p>DOG 18–29%</p> <p>CAT 15–19%</p>
<h4>SEVERE</h4> <p>DOG < 18%</p> <p>CAT < 15%</p>

RBC – red blood cells
Hct – hematocrit
Hb – hemoglobin
MCV – mean corpuscular volume
MCHC – mean corpuscular hemoglobin concentration

Sources:
Atlas of veterinary hematology. John W. Harvey
Veterinary Laboratory Medicine: Interpretation and Diagnosis. Denny J. Meyer, John W. Harvey, Polish edition
Small Animal Internal Medicine. Richard W. Nelson, C. Guillermo Couto, Polish edition



The tests detect causative agents and antibodies to the most common and dangerous vector-borne diseases

A comprehensive approach to anemia in the form of easily absorbed heme iron

SUPPORT AND RECOVERY AFTER VECTOR-BORNE DISEASES



COMPREHENSIVE SUPPORT OF LIVER FUNCTION: DIET + SUPPLEMENTS

Hepatiale Forte line of supplements contains substances providing the following effects:

- hepatoprotective
- supporting regeneration of hepatocytes
- cholepoietic and cholagogic
- supporting digestive processes

Hepatic dietary food:

- with added artichoke and phospholipids
- low in protein, low in fat

COMPREHENSIVE SUPPORT FOR KIDNEY FUNCTION: DIET + SUPPLEMENTS

RenalVet supplement:

- reduces phosphorus absorption from the gastrointestinal tract
- combination of calcium carbonate and chitosan
- convenient to use Twist Off capsules
- always to be administered with food

Renal dietary food:

- low in protein, phosphorus and sodium
- with added omega-3 fatty acids (salmon oil)

DIARRHOEAS

CPV Ag



Detects the antigen of parvovirus in dogs



Sensitivity:
99.9%

Specificity:
98.8%

Packaging: 2/5/10 units



CPV/CCV Ag



Detects the antigens of parvovirus and coronavirus in dogs



Sensitivity:
CPV 99.9%, CCV 93.1%

Specificity:
CPV 99.9%, CCV 97.5%

Packaging: 2/5 units



CPV/CCV/Giardia Ag



Detects the antigens of parvovirus, coronavirus and *Giardia* in dogs



Sensitivity:
CPV 99.9%, CCV 93.1%,
Giardia 99.9%

Specificity:
CPV 99.9%, CCV 97.5%,
Giardia 99.9%

Packaging: 2/5 units



Giardia Ag



Detects the antigen of *Giardia intestinalis*



Sensitivity:
99.9%

Specificity:
99.9%

Packaging: 2/5/10 units



The key:



FPV/FCoV/Giardia Ag



Detects the antigens of panleukopenia virus, coronavirus and *Giardia* in cats



Sensitivity:
FPV 97.0%, FCoV 92.8%,
Giardia 99.9%

Specificity:
FPV 97.0%, FCoV 98.1%,
Giardia 99.9%

Packaging: 2/5 units

FPV Ag



Detects the antigen panleukopenia virus



Sensitivity:
99.0%

Specificity:
97.0%

Packaging: 2/5/10 units

SUPPORT IN DIARRHOEAS



DIARRHOEAS

Cryptosporidium Ag



A rapid test for diagnosing cryptosporidiosis in calves based on immunochromatographic method, which allows for detecting, with significant accuracy, **the presence of antigens of *Cryptosporidium* in calf faeces**. A single test allows for obtaining the results within 10 minutes, in the shed.

- ***Cryptosporidium*** leads to the **damage of the villi of the gastrointestinal tract and inflammation**, causing a mixed-type diarrhoea (osmotic-secretive) with varied degrees of intensification. *Cryptosporidium* is resistant to the majority of medication and **requires targeted therapy**, not only of an affected animal!

A single test may be used also for monitoring the treatment results.



Sensitivity:
98.2%

Specificity:
99.0%

Packaging: 5 units

Clostridium perfringens Ag



Rapid test for the diagnosis of diarrhea caused by *C. perfringens*, based on the immunochromatographic method. This pathogen:

- causes diarrhea, a rapid rise of temperature and inflammation of the intestines
- it spreads quickly throughout the herd leading to significant economic losses.

Test detects fragments of bacteria and α -toxin which is produced by them, test specificity is based on the fact of physiological presence of bacteria in the gastrointestinal tract. Test does not show a positive result in healthy animals, the positive result is obtained in case of exceeding the limit of pathogenic bacteria i.e. above $4,125 \times 10^6$ CFU/ml

The individual test may be performed in order to determine health status of the whole herd. It enables to plan the preventive measures.



Packaging: 5 units

The key:



full blood



plasma



serum



urine



faeces



eyes



nose

BoviD-4 Ag



A quadruple test for differentiation of the causes of calf diarrhoeas based on immunochromatographic method, which allows to detect the presence of the **antigen of E.coli K99, rotaviruses, coronaviruses and Cryptosporidium** in calf faeces.

The result of BoviD-4 test gives the picture of the entire herd:

- **E. coli K99 (ETEC) is indicative of poor quality of colostrum** or incorrect hydration of a calf.
- **Cryptosporidium** – **requires targeted therapy**, not only of an affected animal, but also of all calves within a group. If a problem is present in a herd, it is recommended to use prophylactic agents from the first days of life onwards.
- **Rotavirus/ coronavirus** – it is necessary to carry put disinfection. Calves may be easily protected against E.coli K99, rotaviruses, coronaviruses by means of **vaccinating cows in dry period**.

The result of the test is available within 10 minutes only!



Sensitivity:

E.coli: 96.8%, Crypto: 96.8%,
Rota: 96.4%, Corona 96.0%

Specificity:

E.coli: 97.3%, Crypto: 98.2%,
Rota: 95.9%, Corona 94.5%

Packaging: 5 units

OxyCalf



THE ONLY CALVES' INHALATION OXYGEN ON THE MARKET

The inhalation oxygen is dedicated for calves after a difficult and prolonged parturition or a cesarean section. It improves respiration and enables to start independent respiration within a shorter period of time. It provides an important support in the first hours of life by reducing exposure to respiratory acidosis associated with disturbance of acid and base homeostasis of the body.

The result of the test is available within 10 minutes only!

Composition:

12 l of compressed oxygen with 99,4% purity

Application:

wrap the tube around the calf's neck, place the nasal tip in the nostril and unscrew the valve.

Grammage: 930 ml (can)

Packaging: 20 cans



FELINE INFECTIOUS DISEASES



FeLV Ag



Detects the antigen of feline leukaemia virus

Sensitivity:

99.9%

Specificity:

99.9%

Packaging: 2/5/10 units



FIV Ab



Detects the antibodies against feline immunodeficiency virus (FIV)

Sensitivity:

96.0%

Specificity:

98.0%

Packaging: 2/5/10 units



FIV Ab/FeLV Ag



Detects the antibodies against feline immunodeficiency virus (FIV) and the antigen of the feline leukaemia virus (FeLV)

Sensitivity:

FIV 96.0%, FeLV 99.9%

Specificity:

FIV 98.0%, FeLV 99.9%

Packaging: 2/5/10 units



Toxoplasma Ab



Detects the antibodies against *Toxoplasma gondii*

Sensitivity:

99.9%

Specificity:

99.0%

Packaging: 5 units



FeliCheck-3



Detects the antigen of the feline leukaemia virus (FeLV) and the antibodies against feline immunodeficiency virus (FIV) and feline heartworm

Sensitivity:
FIV 96.0%, FeLV 99.9%, FHW 100%

Specificity:
FIV 98.0%, FeLV 99.9%, FHW 100%

Packaging: 5 units



VetoMune



TWO-PRONGED IMMUNOSTIMULATING ACTION

A supplement designed for the non-specific stimulation of humoral and cellular immunity in cats and dogs. Recommended for animals during the period of intense growth, as well as for adult and senior pets with reduced immunity, increased risk of infections, viral and bacterial diseases, or during pregnancy and lactation. It also boosts the immunity transmitted to offspring, as well as the immune response after medical procedures and during convalescence.

The beta (1,3/1,6)-glucan present in the product is one of the best known substances with immunostimulating properties. It could directly stimulate antimicrobial mechanisms within the body and helps to support the effectiveness of preventive vaccinations. The oral administration of beta-glucan increases both mucosal and serum titres of specific IgG and IgA antibodies.

The key:



FELINE CORONAVIRUSES

FCoV Ab



Detects the antibodies against feline coronavirus

Sensitivity:

96.0%

Specificity:

97.9%

Packaging: 2/5/10 units



FCoV Ag



Detects the antigen of feline coronavirus

Sensitivity:

92.8%

Specificity:

98.1%

Packaging: 2/5 units



FCoV Ag/Ab



Detects the antigen and antibodies against feline coronavirus

Sensitivity:

92.8%

Specificity:

98.1%

Packaging: 5 units



The key:



whole blood



plasma



serum



urine



faeces



eyes



nose

UNIQUE DIETS VET EXPERT ELIMINATION

DEDICATED FOR DOGS
WITH FOOD INTOLERANCE

MONOPROTEIN
GLUTEN FREE
HIGHLY PALATABLE

NEW DIETS



JOINTS SUPPORT

- Over 30% of salmon, also freshly prepared.
- Contains turmeric, glucosamine and chondroitin sulfate.
- High content of Omega 3 polyunsaturated fatty acids, including EPA.



KIDNEYS SUPPORT

- Combination of rabbit meat with duck fat ensures high palatability.
- Limited protein and phosphorus content.
- The addition of cranberries limits the risk of urinary tract diseases.



SUPPORT FOR DIGESTIVE SYSTEM

- The only diet with optimally high protein content (31%) and low fat content (8%)
- 47% of turkey, also freshly prepared
- High digestibility confirmed by digestibility research*.

* Conducted with a cooperation with Wrocław University of Environmental and Life Sciences.

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**VET
EXPERT**
BASED ON EVIDENCE

DIFFERENTIATION OF THE RESPIRATORY TRACT DISEASES

CDV Ag



Detects the antigen of canine distemper virus

Sensitivity:

99.9%

Specificity:

98.5%

Packaging: 2/5/10 units



CIRD-3 Ag



Detects the antigens of canine distemper virus, adenoviruses and canine influenza virus

Sensitivity:

CDV Ag 98.8%, CAV Ag 94.0%, CIV 90.0%

Specificity:

CDV Ag 99.9%, CAV Ag 97.0%, CIV 99.9%

Packaging: 5 units



INFECTIOUS REPRODUCTIVE SYSTEM DISEASES

C.Brucella Ab



Detects antibodies against *Brucella canis*

Sensitivity:

93.0%

Specificity:

99.9%

Packaging: 5 units



The key:





VeTussin

SUPPORTS RESPIRATORY FUNCTION

A supplement for dogs, designed to support respiratory function. It helps dilute thick or sticky mucus, as well as relax cramped smooth muscles in the bronchi and the trachea. Plant extracts alleviate the symptoms and significantly improve dog's comfort.



SemeVet

UNIQUE IMPACT ON SEMEN QUALITY AND VOLUME

Designed specifically for male breeding dogs, the product supplies substances necessary for the proper formation and maturation of sperm cells. It enhances their structure and reduces the number of abnormalities. Administered throughout spermatogenesis, the supplement improves the quality of sperm by 30%. Ideal for dogs with decreased semen parameter



ATOPY / FOOD ALLERGY

Total IgE Ab



Detects total IgE antibodies



Sensitivity:

97.1%

Specificity:

96.4%

Packaging: 5 units

ENDOCRYNOPATHIES

Feline T4



Detects and estimates TT4 levels in cats

- **Feline hyperthyroidism** is the most common **endocrinopathy** in older cats > 13 yrs old
- **TT4 levels** should be monitored in cats aged > 7 yrs
- Vet Expert Feline T4 is **revolutionary screening test** for older cats – introducing prophylactic thyroxine measurements in older and/or sick cats allows to detect the disease before characteristic symptoms set in (e.g. severe weight loss, hyperactivity, neck deformations).
- Extremely useful semi-quantitative test detects and estimates serum or plasma **TT4 levels:**
 - levels above the reference range – probability of hyperthyroidism (range 40-80 ng/ml)
 - levels within the reference range (value < 40 ng/ml) – normal thyroid function or the decrease is due to other causes.
- Worth using alongside a **FIV/FeLV test** (in older cats that go outside)

In relation to the value (ng/ml):

40

Sensitivity:

97.22%

Specificity:

93.02%

Packaging: 5 units

In relation to the value (ng/ml):

80

Sensitivity:

92.31%

Specificity:

94.34%



The key:



full blood



plasma



serum



urine



faeces



eyes



nose

COMPREHENSIVE DERMATOLOGICAL SUPPORT

DIETS, SUPPLEMENTS AND
COSMETICS TO SUPPORT
SKIN FUNCTIONS.



DIAGNOSTIC DEVICES AND STRIP TESTS



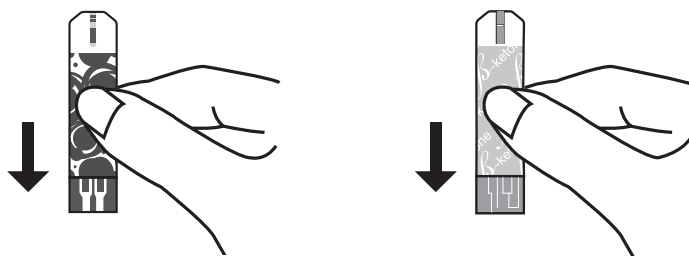
Vet Expert Bovine KG Check glucometer



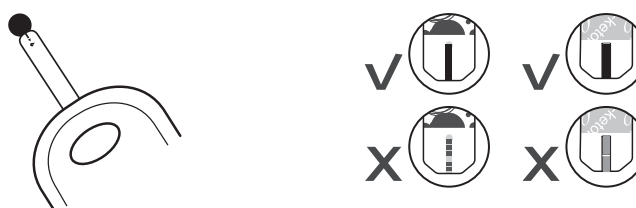
A device for measuring the level of ketone bodies and glucose in the blood of cattle. Control of these indicators is essential in the proper diagnosis and monitoring of ketosis; carrying out the test allows to obtain a quick and precise result from a small amount of blood. The device is compatible with VetExpert β -Keton Test Strip and Vet Expert Glucose Test Strip.

HOW TO MAKE THE TEST?

Insert the test strip into the opening of the device and press downward. Be careful not to touch the test fields at both ends of the strip.

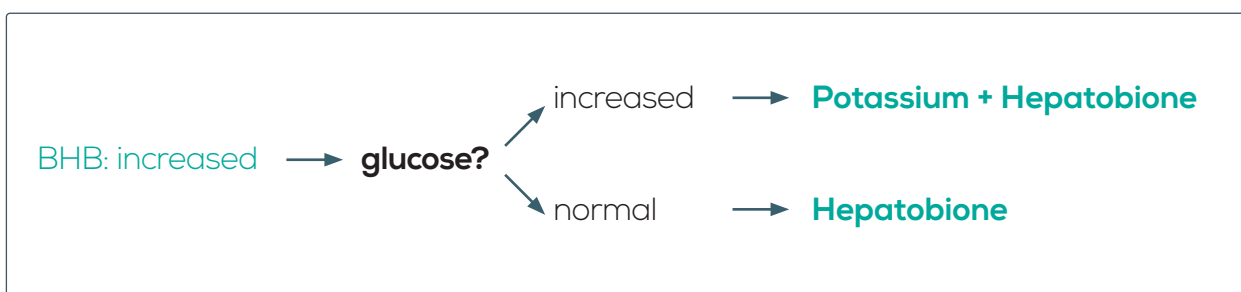


Get enough blood into the absorbent window. Check that it has been filled in exactly



After a few seconds, the screen will display blood glucose or blood ketone result.

Last reading will be automatically saved. To turn off the device, just remove the strip. Discard the used strip.



Vet Expert β -Keton Test Strip



- Dedicated for use in cattle.
- Dedicated for measurement of the ketone body level (β -hydroxybutyrate) in blood.
- The best way is to collect the blood for testing from the tail vein and to apply a few drops on test strip placed in the glucometer as fast as possible.
- The result is displayed on the screen within a few seconds.

Strips dedicated for a glucometer Vet Expert KG Check.

Packaging: 50 strips

Vet Expert Glucose Test Strip



- Dedicated for use in cattle.
- Dedicated for measurement of glucose level from blood.
- The best way is to collect blood for testing from the tail vein and to apply a few drops on a test strip placed in the glucometer as soon as possible.
- The results are displayed on the screen within a few seconds.

The strips are dedicated for glucometer Vet Expert KG Check

Packaging: 50 strips



DIAGNOSTIC DEVICES AND STRIP TESTS



Vet Expert BG Vet Pets glucometer



The VetExpert BG Vet veterinary glucometer permits a precise measurement of glucose in the blood of cats, dogs, and mice.

- Glucometers adapted from human medicine, though commonly used in vet offices, only give a rough estimate of glucose concentrations due to the significant differences in glucose distribution between the plasma and the red cells in humans and in animals.
- A precise measurement is key for the correct diagnosis and monitoring of diabetes.

WHY CHOOSE A VETERINARY GLUCOMETER?

The distribution of glucose in animal and human blood:



CAT:

93% in plasma
7% in red blood cells



DOG:

87,5% in plasma
12,5% in red blood cells



HUMAN:

58% in plasma
42% in red blood cells

Vet Expert Obesity Cat

Complete and balanced dietetic food for adult cats to reduce overweight, obesity or regulate the glucose and fat balance. The recipe is monoprotein, which means that the single source of animal-derived protein is turkey. The feed doesn't contain gluten, and the source of starch are potatoes.

Dietetic indications

- Reduction of excess body weight
- Maintain a target body weight
- Regulation of glucose supply (*Diabetes mellitus*)



Vet Expert BG Vet Blood Glucose Test Strips



- Special calibration strip for cats and dogs
- High accuracy thanks to a patented measurement technology
- Unique test strip that contains two different components for signal detection
- A very small amount of blood is needed
- Convenient packaging with more test strips inside (50 pcs per box)
- Special security seal to give you the best product quality

Packaging: 50 strips.

Vet Expert BG Vet Control Solutions



- Contain a known concentration of glucose, which falls into two ranges: NORMAL and HIGH (the reference range can be found on the test strip vial)
- Allow to make sure the glucometer and the test strip work properly
- Control solutions should be used whenever:
- Measurement results do not match the clinical state of the patient
- Doubts arise as to whether the glucometer and the strips work properly
- You want to practice the test procedure
- The glucometer or the test strips could be damaged or stored in inappropriate conditions

DIAGNOSTIC DEVICES AND STRIP TESTS



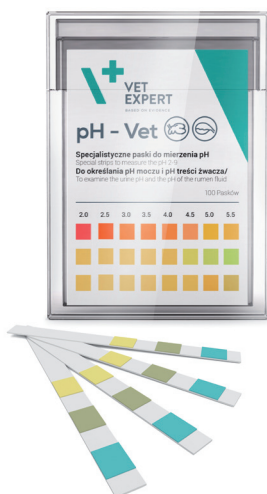
Refractometer



Digital refractometer which enables to measure four parameters:

- the quality of colostrum,
- urine specific gravity,
- transfer of passive immunity,
- the content of dry matter in the milk replacers and milk.

After application of a drop of the tested fluid on the prism, the results are displayed on the screen within a few seconds. Easy to use and easy interpretation of results.



pH - Vet Strips



SPECIALIST STRIPS TO MEASURE THE PH OF URINE AND RUMEN CONTENT.

Urine pH correlates with DCAD (Dietary Cation-Anion Difference in the feed). High DCAD in the period of calving disturbs mobilization of calcium and leads to hypocalcaemia.

- Correct pH of the urine before calving is around 7.
- Measurement of pH of the rumen contents enables to evaluate health status of the cow in terms of acidosis and alkalosis risk. Correct pH of the rumen is between 5,5 - 6,5.

Packaging: 100 strips.



UroTest-11-Vet



STRIP TEST FOR URINE EXAMINATION

Strips for analysis of 11 basic urine parameters which are useful in daily practice. Easy to use, the results are obtained within one minute. Dedicated for use in urinalysis of all the animal species.

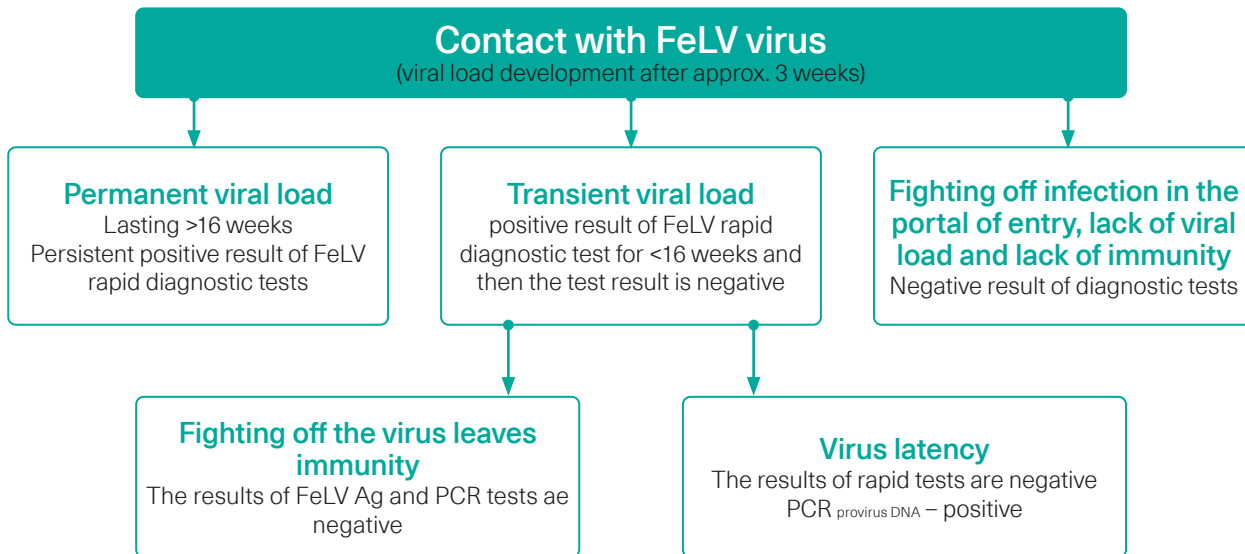
It analyzes following parameters:

1. Leucocytes
2. Ketones
3. Nitrites
4. Urobilinogen
5. Bilirubin
6. Protein
7. Glucose
8. Specific gravity
9. Blood
10. pH
11. Ascorbic acid

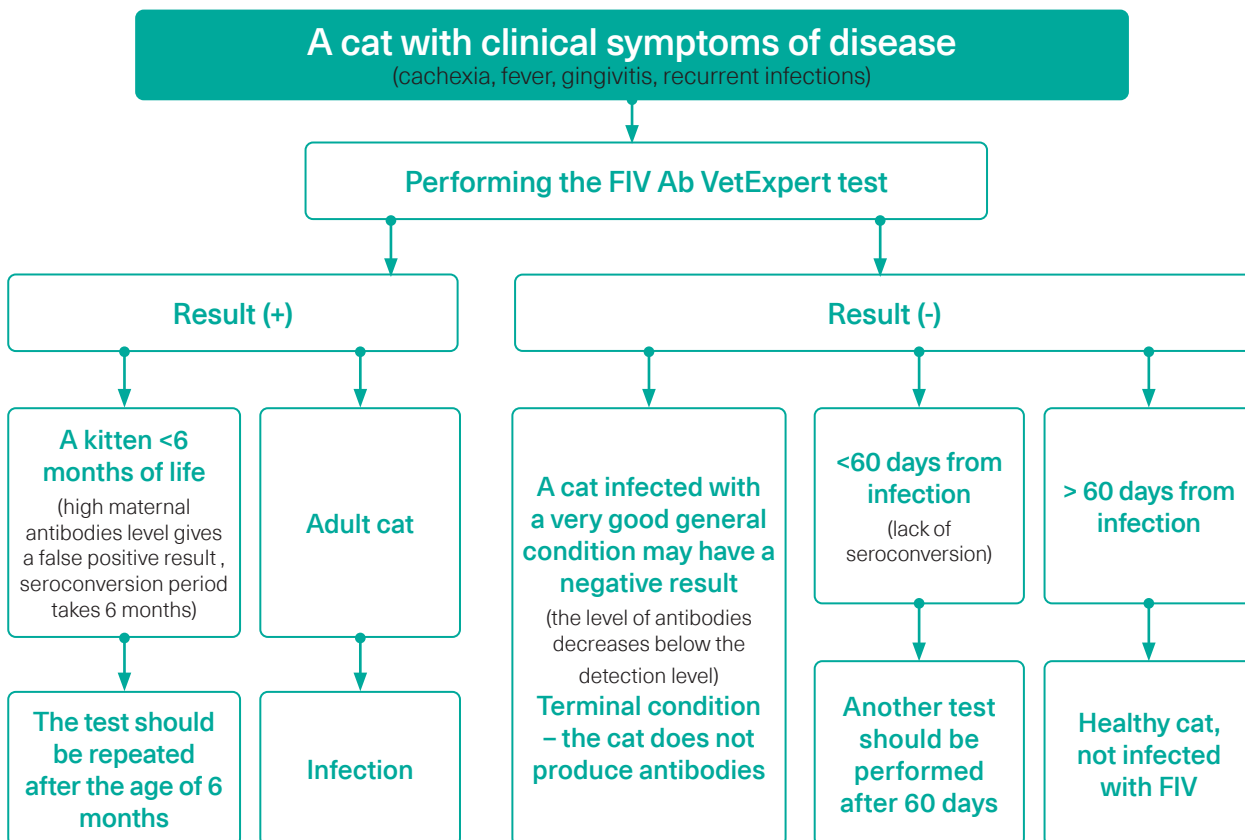
Packaging: 100 strips.

RAPID DIAGNOSTIC TESTS IN THE OPINION OF VETEXPERT

FeLV Ag

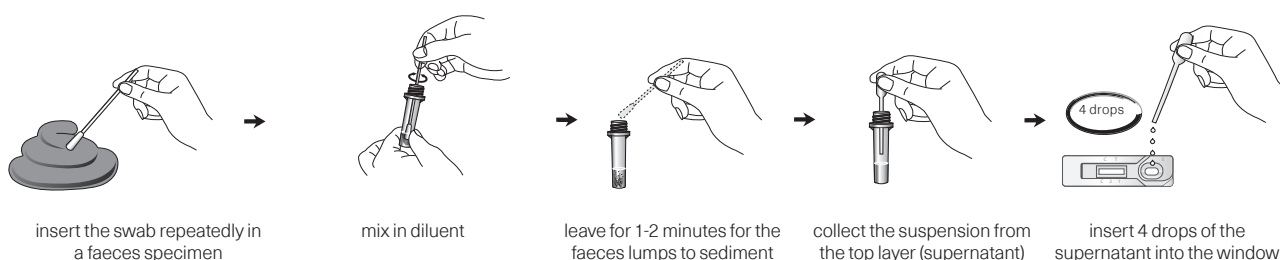


FIV Ab



Giardia Ag

Giardia duodenalis genotypes	
A-1	humans, dogs, cats, cattle
A-2	humans, dogs
B	humans, dogs, guinea pigs, chinchillas
C	dogs
D	dogs
E	ruminants
F	cats
G	rats
h	marine mammals



FCoV Ab/FCoV Ag

Vet Expert FCoV Ag		Negative	Positive	Positive	Negative
Vet Expert FCoV Ab		Negative	Negative	Positive	Positive
Interpretation	FCoV	<ul style="list-style-type: none"> No infection No shedding Possible incubation period 	<ul style="list-style-type: none"> Virus shedding Antibodies undetectable as they occur as late as 2 weeks after infection (seroconversion after 2 weeks) 	<ul style="list-style-type: none"> Virus shedding Virus carrier state 	<ul style="list-style-type: none"> Coronavirus carrier state No shedding
	FIP		<ul style="list-style-type: none"> Low probability of FIP Negative result of antibodies test may be indicative of binding antibodies into antigen-antibody complexes (such a situation may occur in the wet form of FIP) 	<ul style="list-style-type: none"> Usually with FIP the antibodies level is high; Adoption of another cat or including this cat into a herd must be withheld 	<ul style="list-style-type: none"> Usually with FIP the antibodies level is high

After the elimination of a virus, the level of antibodies decreases within 3-12 months; the cats in whom the antibodies are detected on a permanent basis should be treated as virus carriers. In the cases of a persistent carrier state, it is not recommended to include a cat into a cattery.

CPV Ag/CCV Ag

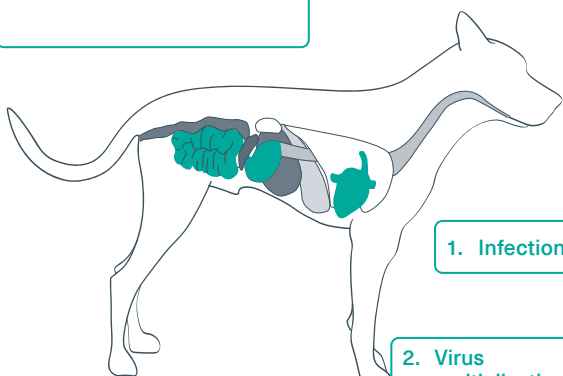
CPV course of infection

4. Virus is excreted with faeces after 3-4 days of infection

- » necrosis of the cells of intestinal crypts
- » absorption disorders, symptom aggravation, gastrointestinal bleeding

3. Viral load after 3-4 days of infection

- » virus multiplication in the stomach, lymphatic system and bone marrow



5. Endotoxemia

- » complete permeability of the gut
- » physiological bacterial gut flora enters the organism

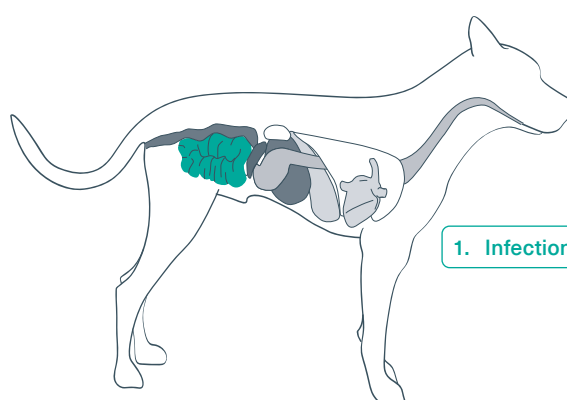
1. Infection
2. Virus multiplication in the surrounding lymph nodes for the first 1-2 days

CCV course of infection

Coronavirus is the second most frequent cause of puppy diarrhoeas

4. Diarrhoea after 1 to 7 days of the infection

3. After 2-3 days of infection the virus infects already 2/3 of the small intestine length



5. Virus is excreted with faeces for 6 to 9 days of infection

2. Disease incubation 3-6 days (4 days on average)

	Parvovirosis	Coronarovirosis
Age	1-12 months	Up to 6 months
Breed	All	All
Infectiousness	Yes	Yes
Mortality	High (puppies and young dogs)	Very low (only puppies)
Duration	6-10 days	6-10 days (or shorter)
Body temperature decrease	2-3 days, significant	No
Leukopenia	Frequent, but short lasting	No
Faeces	Watery, grey-and-white, often with blood and mucus threads, characteristic smell of soap	Watery, yellow-and-orange or greenish, foul-smelling
Reaction to intravenous hydration	Gradual improvement	Fast improvement
Complications	Numerous: hypoglycaemia, acidosis, hypopotassaemia, hypoproteinaemia, immunosuppression, sepsis, endotoxemia, shock	No
Relapses	No	No (immunity is short-lasting, and then the infections are asymptomatic)

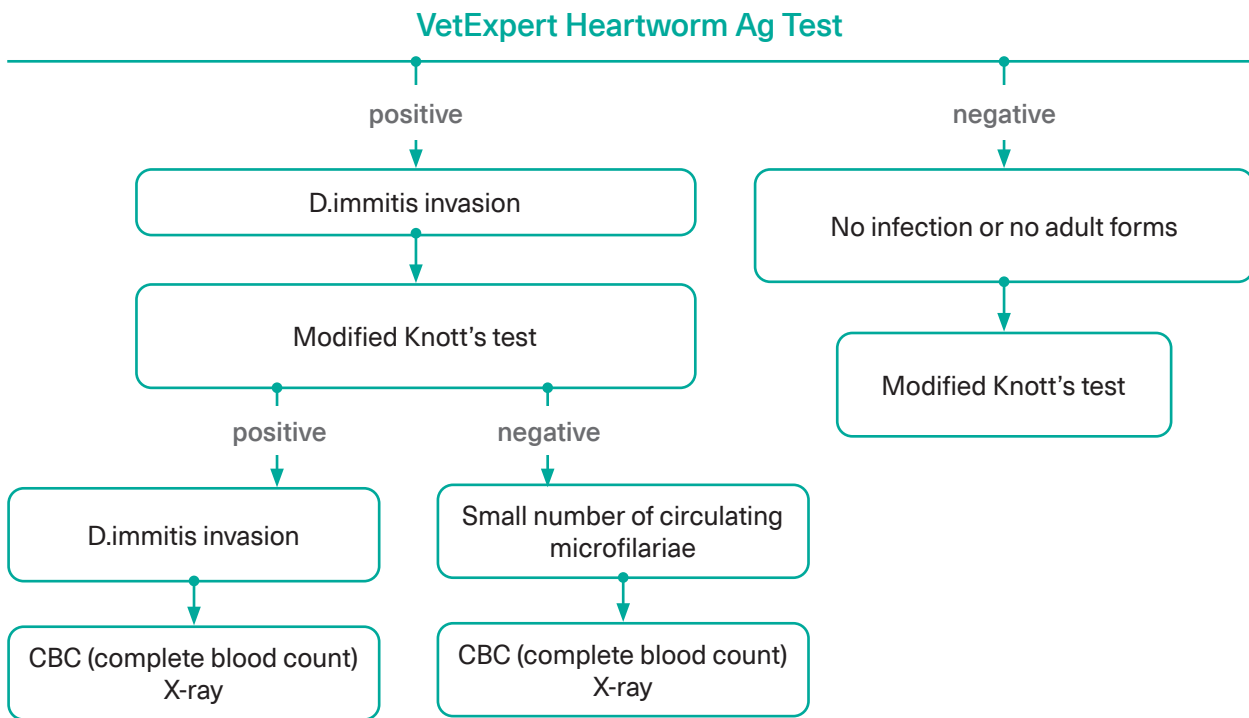
CaniV-4

Pathogen	Vector	Transmission time	Clinical symptoms	Laboratory signs
<i>Anaplasma phagocytophilum</i>	<i>Ixodes spp.</i>	36-48 hours	Fever, fatigue, diarrhoea, vomiting, articular pain	Moderate thrombocytopaenia. Autoimmune haemolytic anaemia
<i>Anaplasma platys</i>	<i>Rhipicephalus sanguineus</i>	36-48 hours	Fever	Cyclic thrombocytopaenia
<i>Borrelia burgdorferi sensu lato</i>	<i>Ixodes spp.</i>	~24 hours	Often subclinical, fever, decrease of appetite, articular pain, loss of body weight	Thrombocytopaenia, hyperglobulinaemia
<i>Ehrlichia canis</i>	<i>Rhipicephalus sanguineus</i> , <i>Ixodes ricinus</i> , <i>Dermacentor spp.</i> (<i>Babesia canis</i>)	< 3 hours	Often subclinical, fever, loss of body weight, enlargement of lymph nodes, splenomegaly	Thrombocytopaenia, non-regenerative anaemia, hyperglobulinaemia, azotaemia, APTT prolongation, bone marrow hypoplasia or aplasia
<i>Dirofilaria immitis</i>	Mosquitoes belonging to the <i>Aedes</i> , <i>Anopheles</i> , <i>Culex</i>	Invasive larvae transmitted at the moment of stinging	Often subclinical, cough, rapid breathing, pulmonary embolism, ascites	Eosinophilia, thrombocytopaenia, leucocytosis, hyperglobulinaemia, radiogram changes

Pathogen	Possibility of antibodies detecting from	Re-testing after
<i>Anaplasma spp.</i>	14 days	Antibodies may persist for several months
<i>Borrelia burgdorferi</i>	> 40 days	About 3-4 months
<i>Ehrlichia canis</i>	7 days (some dogs, individually from 28 days)	3 – 9 months (individually)

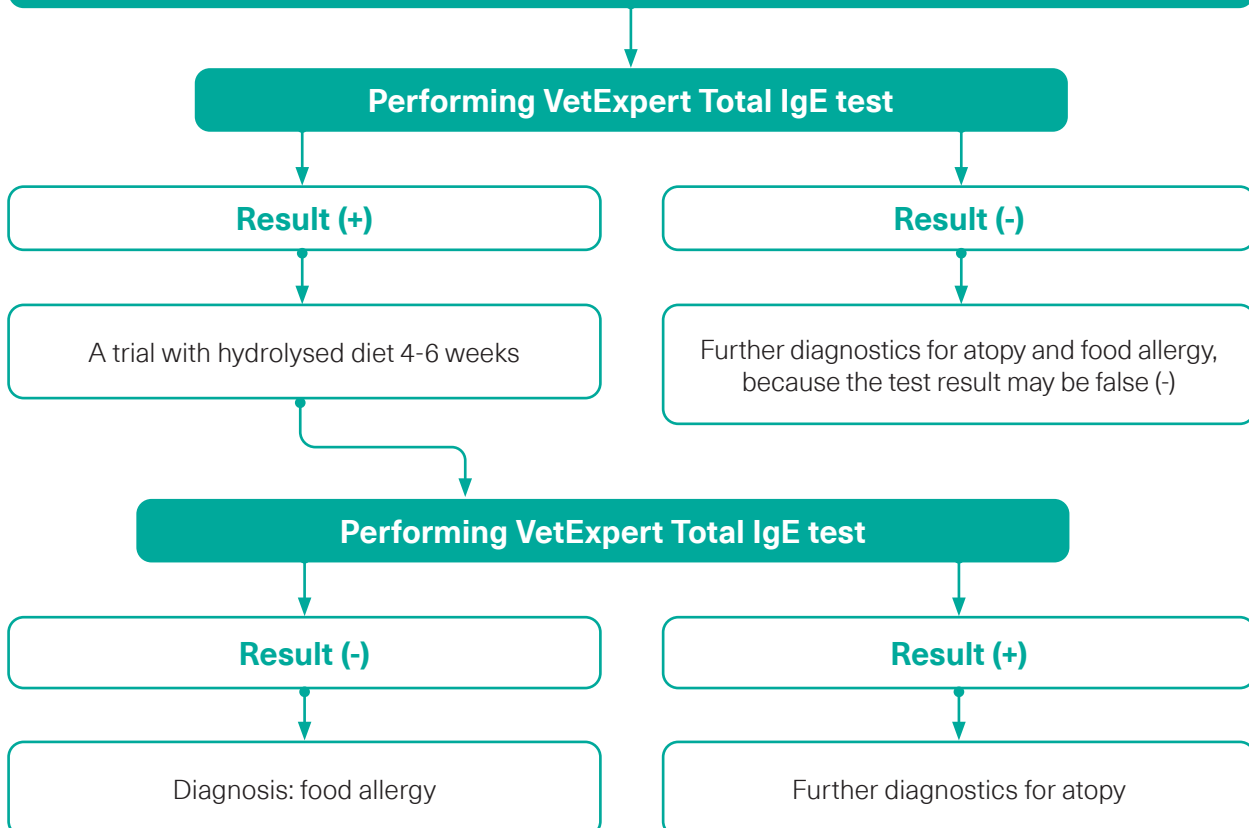
Heartworm Ag

Diagnostic algorithm of VetExpert Heartworm Ag Test



Total IgE

A dog with symptoms of atopy and/or food allergy





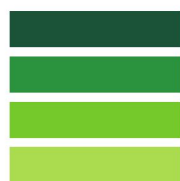
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