

Advanced your clinical services with Bioguard rapid diagnostic solutions

Boost your in-House Testing with Bioguard diagnostic test solution

Introducing Bioguard Diagnostic Rapid Test Kit



/ Accuracy / Simplicity / Reliability /

The Bioguard kits are **Accurate**, **Simple**, and **Reliable**, a brand to Help Veterinarians more confident and take better decisions for their clinic and patient.

Why Bioguard is a Partner to Advance your Clinical Services?

Our customer satisfaction is at the center of everything we do, we implement a Commercial and a Technical Team that is never been away more than 8 hours to provide assistance to our partners and Veterinarians.



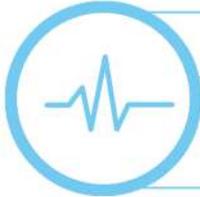
We don't sell products, we solved problems!!

Benefits when Integrating Bioguard in your Business.



For the Patient

A quick result can save the animal's life in an emergency situation, or improve anesthetic safety.



For the Client

Satisfaction can be vastly improved with a short waiting time and more convenience. The perceived value of a test is also known to be higher if the results are instant.



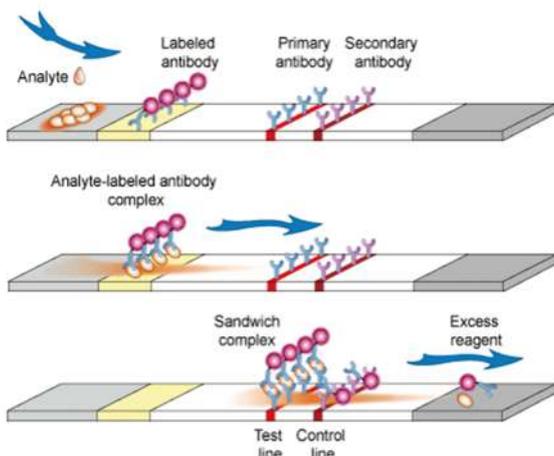
For the Practice

Increased client satisfaction means more business, as customers are more likely to return and recommend a practice perceived as being well equipped. Profitability can also be increased.



For the Clinician

Clients are more likely to opt for a test if instant, improving the level of care, making medicine more interesting and avoiding having a client chasing for results daily.



How does the Bioguard test kit works?

- 01 Analyte run to the labeled antibody
- 02 Then, binds with the labeled antibody
- 03 Migrate to the Primary and secondary antibody to perform the sandwich complex where the control line targeted conjugate is captured at the control line.
- 04 The excess reagent continue to the absorb pad.



DOG

	Canine Distemper Virus Ag Test	05
	CDV Ag	
	Canine Parvovirus Ag Test	06
	CPV Ag	
	Canine Heartworm (CHW) Ag Test	07
	CHW Ag	
	Canine Babesia gibsoni Ab Test	08
	Canine Parvovirus Ag/ Canine Coronavirus Ag combo Test	09
	CPV Ag/CCV Ag	
	VLabs 3DX	10
	CPV Ag/CCV Ag/Giardia Ag	
	VLabs 3RX	11
	CDV Ag/CAV Ag/CIV Ag	
	VLabs 4X	12
	CHW Ag/ Lyme Ab/ E. canis Ab/ Anaplasma Ab	
	VLabs 4BX	13
	CHW Ag/ B.gibsoni Ab/ E. canis Ab/ Anaplasma Ab	



CAT

	Feline Panleukopenia Virus Ag Test	14
	FPV Ag	
	Feline Coronavirus Ab Test	15
	FCoV Ab	
	Toxoplasma IgM/ IgG Ab Test	16
	Toxoplasma IgM/IgG Ab	
	Feline Leukemia Virus Ag/ Feline Immunodeficiency Virus Ab combo Test	17
	FeLV Ag/FIV Ab	
	Feline Blood Type Test	18
	Peritonitis Detection Kit	19

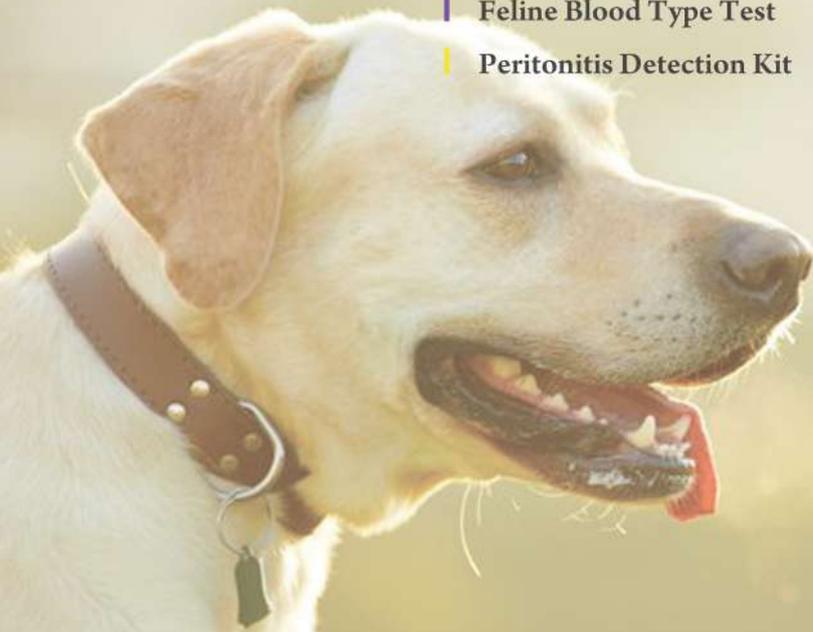




Table of contents

OTHERS

Antibiotic Susceptibility Test	20
--------------------------------	----

UPCOMING

Canine Pancreatic Lipase (cPL) Test	21
Symmetric Dimethylarginine (SDMA) Test	22
Glycated hemoglobin (HbA1c) Test	23
Feline Calicivirus Ag/ Feline Herpesvirus Ag combo Test FCV Ag/ FHV Ag	24
Feline Coronavirus Ag Test FCoV Ag	25
Feline α 1-acid glycoprotein (AGP) Test	26
Feline Pancreatic Lipase (fPL) Test	27
Q&A	28

CDV Ag

Canine Distemper Virus Ag Test

Canine distemper is a viral disease that is contagious with high fatality rate.

CDV is spread through aerosol droplets and through contact with infected bodily fluids. Young, unvaccinated puppies and non-immunized older dogs tend to be more susceptible to the disease.

CDV affects several body systems, and they can be divided into 3 types of clinical signs.

- **Gastrointestinal type:** majorly vomiting and diarrhea, with loss of appetite and lethargy.
- **Respiratory type:** fever, eye inflammation and eye/nose discharge and coughing.
- **Neurological type:** thickened footpads, seizures, paralysis, and attacks of hysteria.

► Kit Description

Canine Distemper Virus (CDV) Ag Test is a sandwich lateral flow immunochromatographic assay, developed and manufactured by Bioguard Corporation, for rapid and qualitative detection of Canine Distemper Virus antigens in dog's ocular and nasal discharge.

Bioguard CDV Ag Test	
Samples	Dog's ocular, nasal secretions, serum
Target	Canine Distemper Virus Ag
Method	Immunochromatographic assay
Sensitivity	100% vs. RT-PCR
Specificity	98.08% vs. RT-PCR

► Kit Contents

COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
CDV Ag test device	5	10
Disposable dropper	5	10
Assay buffer tube	5	10
Sterile swab	5	10
Instruction manual	1	1



► Testing Procedure



Use sterile swabs to collect the ocular or nasal secretions.
It would be helpful to wet sterile swabs with saline water before collection.

Insert the swab into the tube. Agitate it to ensure the sample has been well dissolved in the buffer.
Let it sit for 1 minute.

Take the upper layer by a dropper. (Avoid large particles to prevent the aggregation)

Place the test strips horizontally. Gradually add 4 drops of sample extraction into the sample well.
Wait for 5-10 minutes.

Results Interpretation:

- Positive: The presence of both the C and T band, no matter T band is clear or vague.
- Negative: Only the C band appears.
- Invalid: No colored band appears in C zone, no matter whether T band appears.

► Product Specifications

Product Name	Packing	Product Shelf Life
Bioguard CDV Ag Test	5 kits/ box	24 months
	10 kits/ box	

CPV Ag

Canine Parvovirus Ag Test

Canine parvovirus is a contagious virus that can affect all dogs, but unvaccinated dogs and puppies are the most at risk.

CPV virus affects dogs' gastrointestinal tracts and is spread by direct dog-to-dog contact and by contacted with contaminated feces, food and water bowls, or people.

CPV affects intestinal regions, causing fever, lethargy, loss of appetite, vomiting, and diarrhea. Infected dogs with severe vomiting and diarrhea might have septic shock, which could lead to death.

▶ Kit Description

Canine Parvovirus (CPV) Ag Test is a sandwich lateral flow immunochromatographic assay, developed and manufactured by Bioguard Corporation, for rapid and qualitative detection of Canine Parvovirus antigens in dog's feces.

Bioguard CPV Ag Test	
Samples	Dog's feces
Target	Canine Parvovirus Ag
Method	Immuno-chromatographic assay
Sensitivity	95.74% vs. RT-PCR
Specificity	100% vs. RT-PCR

▶ Kit Contents

COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
CPV Ag test device	5	10
Disposable dropper	5	10
Assay buffer tube	5	10
Sterile swab	5	10
Instruction manual	1	1



▶ Testing Procedure



Use sterile swabs to collect feces from dog's anus or from at least three different sites of feces.

Insert the swab into the tube. Agitate it to ensure the sample has been well dissolved in the buffer. Let it sit for 1 minute.

Take the upper layer by a dropper. (Avoid large particles to prevent the aggregation).

Place the test strips horizontally. Gradually add 4 drops of sample extraction into the sample well. Wait for 5-10 minutes.

Results Interpretation:

Positive: The presence of both the C and T band, no matter T band is clear or vague.

Negative: Only the C band appears.

Invalid: No colored band appears in C zone, no matter whether T band appears.

▶ Product Specifications

Product Name	Packing	Product Shelf Life
Bioguard CPV Ag Test	5 kits/ box	24 months
	10 kits/ box	

CHW Ag

Canine heartworm (CHW) Ag Test

Canine heartworm (*Dirofilaria immitis*) disease is a fatal disease in dogs and can only be transmitted by mosquitoes. It is caused by heartworms that live in the heart of affected dogs.

Heartworm disease causes severe lung disease, heart failure and damage to other organs in the body, and can affect infected dog's health even after the heartworms are gone.

Kit Description

Canine heartworm (CHW) Ag Test is a sandwich lateral flow immunochromatographic assay, developed and manufactured by Bioguard Corporation, for rapid and qualitative detection of Canine heartworm antigens in dog's blood.

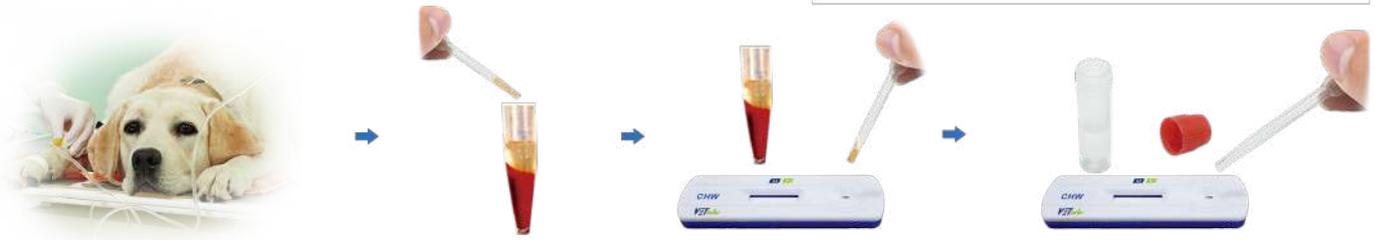
Bioguard CHW Ag Test	
Samples	Dog's serum, plasma, whole blood
Target	Canine Heartworm Ag
Method	Immunochromatographic assay
Sensitivity	89.55% vs. ELISA
Specificity	98.94% vs. ELISA

Kit Contents

COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
Canine Heartworm Ag test device	5	10
Disposable dropper	5	10
EDTA blood collection tube	5	10
Assay buffer bottle	1	1
Instruction manual	1	1



Testing Procedure



Collect blood samples, separate serum from whole blood.

Use droppers to take serum samples (avoid red blood cells).

Place the test strips horizontally. Add 1 drop of serum samples into the sample well.

Immediately add 4 drops of the assay buffer into the well. Wait for 5-10 minutes.



Results Interpretation:

Positive: The presence of both the C and T band, no matter T band is clear or vague.

Negative: Only the C band appears.

Invalid: No colored band appears in C zone, no matter whether T band appears.

Product Specifications

Product Name	Packing	Product Shelf Life
Bioguard CHW Ag Test	5 kits/ box	24 months
	10 kits/ box	

Canine Babesia gibsoni Ab

Canine Babesia gibsoni Ab Test

Babesia gibsoni is also a tick borne parasite that causes lethargy, fever, hemolytic anemia, thrombocytopenia, and splenomegaly. The primary transmission of Babesia organisms to dogs is by ticks during feeding. Many dogs, which survive the acute phase of Babesia gibsoni infection, may become chronic carriers.

▶ Kit Description

Canine Babesia gibsoni Ab Test is a sandwich lateral flow immunochromatographic assay, developed and manufactured by Bioguard Corporation, for rapid and qualitative detection of Canine Babesia gibsoni antibody in dog's blood.

Bioguard Canine Babesia gibsoni Ab Test	
Samples	Dog's serum, plasma, whole blood
Target	Canine Babesia gibsoni Ab
Method	Immunochromatographic assay
Sensitivity	92.13% vs. PCR
Specificity	94.59% vs. PCR

▶ Kit Contents

COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
B. gibsoni Ab test device	5	10
Disposable dropper	5	10
EDTA blood collection tube	5	10
Assay buffer bottle	1	1
Instruction manual	1	1



▶ Testing Procedure



Collect sample.

Use droppers to take serum samples (avoid red blood cells).

Place the test strips horizontally. Add 1 drop of serum samples into the sample well.

Immediately add 4 drops of the assay buffer into the well. Wait for 5-10 minutes.



Results Interpretation:

Positive: The presence of both the C and T band, no matter T band is clear or vague.

Negative: Only the C band appears.

In valid: No colored band appears in C zone, no matter whether T band appears.

▶ Product Specifications

Product Name	Packing	Product Shelf Life
Canine Babesia canis Ab/ gibsoni Ab combo Test	5 kits/ box	24 months
	10 kits/ box	

CPV Ag/CCV Ag

Canine Parvovirus Ag/ Canine Coronavirus Ag combo Test

Canine parvovirus and canine coronavirus are both contagious viruses that are transmitted through feces, vomitus or contaminated food.

They have similar clinical symptoms, including fever, lethargy, loss of appetite, vomiting, and diarrhea. If dogs are co-infected with CPV and CCV, it will increase the fatality rate.

▶ Kit Description

Canine Parvovirus (CPV)/ Canine Coronavirus (CCV) Ag combo Test is a sandwich lateral flow immunochromatographic assay, developed and manufactured by Bioguard Corporation, for rapid and qualitative detection of Canine Parvovirus and Canine Coronavirus antigens in dog's feces.

Bioguard CPV Ag/CCV Ag combo Test		
Samples	Dog's feces	
Target	Canine Parvovirus Ag	Canine Coronavirus Ag
Method	Immunochromatographic assay	
Sensitivity	95.74% vs. RT-PCR	93.10% vs. Nested PCR
Specificity	100% vs. RT-PCR	97.52% vs. Nested PCR

▶ Kit Contents

COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
Foil pouches, each containing a cassette, disposable dropper and desiccant	5	10
Assay buffer tube	5	10
Sterile swab	5	10
Instruction manual	1	1



▶ Testing Procedure



Use sterile swabs to collect feces from dog's anus or from at least three different sites of feces.

Insert the swab into the tube. Agitate it to ensure the sample has been well dissolved in the buffer. Let it sit for 1 minute.

Take the upper layer by a dropper. (Avoid large particles to prevent the aggregation)

Place the test strips horizontally. Gradually add 3 drops of sample extraction into the sample well. Wait for 5-10 minutes.

Results Interpretation:

Positive: The presence of both the C and T band, no matter T band is clear or vague.
Negative: Only the C band appears.
Invalid: No colored band appears in C zone, no matter whether T band appears.

▶ Product Specifications

Product Name	Packing	Product Shelf Life
Bioguard CPV/CCV Ag combo Test	5 kits/ box	24 months
	10 kits/ box	

VLabs 3DX

Canine Parvovirus Ag/ Canine Coronavirus Ag/ Giardia Ag combo Test

Canine parvovirus and canine coronavirus are both contagious viruses that infect gastrointestinal tracts. In addition, Giardia is also a common cause of intestinal infection. Acute or chronic diarrhea are common symptoms. In some cases, may involve vomiting.

A routine fecal flotation test may fail to detect these tiny cysts. For more accurate diagnosis, it would be better to use commercial Giardia test kits and to analyze the feces samples at the same time.

▶ Kit Description

VLabs 3DX is a sandwich lateral flow immunochromatographic assay, developed and manufactured by Bioguard Corporation, for rapid and qualitative detection of Canine Parvovirus, Canine Coronavirus and Giardia antigens in dog's feces.

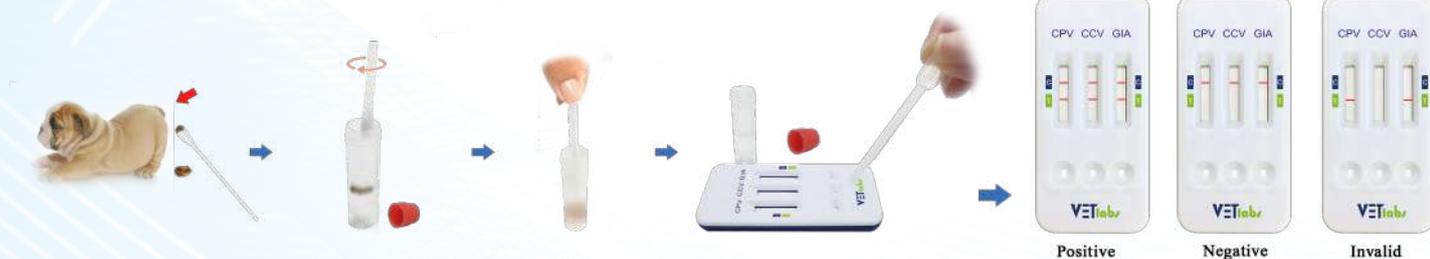
Bioguard VLabs 3DX			
Samples	Dog's feces		
Target	Canine Parvovirus Ag	Canine Coronavirus Ag	Giardia Ag
Method	Immunochromatographic assay		
Sensitivity	95.74% (CPV 2, CPV 2a, CPV 2b) vs RT-PCR	93.10% vs. Nested PCR	95.2% vs. Microscopy Result
Specificity	100% vs. RT-PCR	97.52% vs. Nested PCR	100% vs. Microscopy Result

▶ Kit Contents

COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
Foil pouches, each containing a cassette, disposable dropper and desiccant	5	10
Assay buffer tube	5	10
Sterile swab	5	10
Instruction manual	1	1



▶ Testing Procedure



Use sterile swabs to collect feces from dog's anus or from at least three different sites of feces.

Insert the swab into the tube. Agitate it to ensure the sample has been well dissolved in the buffer. Let it sit for 1 minute.

Take the upper layer by a dropper. (Avoid large particles to prevent the aggregation)

Place the test strips horizontally. Gradually add 3 drops of sample extraction into the sample well. Wait for 5-10 minutes.

Results Interpretation:
Positive: The presence of both the C and T band, no matter T band is clear or vague.
Negative: Only the C band appears.
Invalid: No colored band appears in C zone, no matter whether T band appears.

▶ Product Specifications

Product Name	Packing	Product Shelf Life
Bioguard VLabs 3DX	5 kits/ box	24 months
	10 kits/ box	

VLabs 3RX

Canine Distemper Virus Ag/ Canine Adenovirus Ag/ Canine Influenza Virus Ag combo Test

In dogs, canine distemper, canine adenovirus and canine influenza virus are common causes for respiratory infection.

Clinical symptoms of CDV are cough, eye/nose discharge and coughing. For CAV, it is spread directly from dog to dog by infected respiratory secretions. Type 2 CAV causes tonsillitis, pharyngitis, or no clinical symptoms at all. Moreover, CIV is also spread by direct contact, or nasal secretions. CIV causes fever, persistent cough, and thick nasal discharge.

These three viruses have similar clinical symptoms and could be easily tested by Bioguard Canine Distemper Virus Ag/ Canine Adenovirus Ag/ Canine Influenza Virus Ag combo test.

► Kit Description

VLabs 3RX is a sandwich lateral flow immunochromatographic assay, developed and manufactured by Bioguard Corporation, for rapid and qualitative detection of Canine Distemper Virus, Canine Adenovirus and Canine Influenza Virus antigens in dog's ocular and nasal secretion.

Bioguard VLabs 3RX			
Samples	Dog's nasal secretion		
Target	Canine Distemper Virus Ag	Canine Adenovirus Ag	Canine Influenza Virus Ag
Method	Immunochromatographic assay		
Sensitivity	100% vs. RT-PCR	88.88% vs. RT-PCR	90% vs. PCR
Specificity	98.08% vs. RT-PCR	95.35% vs. RT-PCR	100% vs. PCR

► Kit Contents

COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
Foil pouches, each containing a cassette, disposable dropper and desiccant	5	10
Assay buffer tube	5	10
Sterile swab	5	10
Instruction manual	1	1



► Testing Procedure

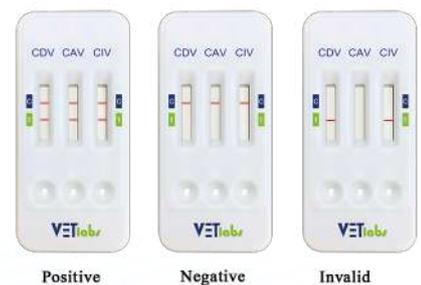


Use sterile swabs to collect the nasal secretion.
It would be helpful to wet sterile swabs with saline water before collection.

Insert the swab into the tube. Agitate it to ensure the sample has been well dissolved in the buffer. Let it sit for 1 minute.

Take the upper layer by a dropper. (Avoid large particles to prevent the aggregation)

Place the test strips horizontally. Gradually add 3 drops of sample extraction into the sample well. Wait for 5-10 minutes.



Results Interpretation:

Positive: The presence of both the C and T band, no matter T band is clear or vague.
Negative: Only the C band appears.
Invalid: No colored band appears in C zone, no matter whether T band appears.

► Product Specifications

Product Name	Packing	Product Shelf Life
Bioguard VLabs 3RX	5 kits/ box	24 months
	10 kits/ box	

VLabs 4X

CHW Ag/ Lyme Ab/ E. canis Ab/ Anaplasma Ab combo test

Kit Description

VLabs 4X is a sandwich lateral flow immunochromatography assay, developed and manufactured by Bioguard Corporation, for rapid and qualitative detection of CHW antigen and Lyme, E. canis, and Anaplasma antibodies in dog's blood.

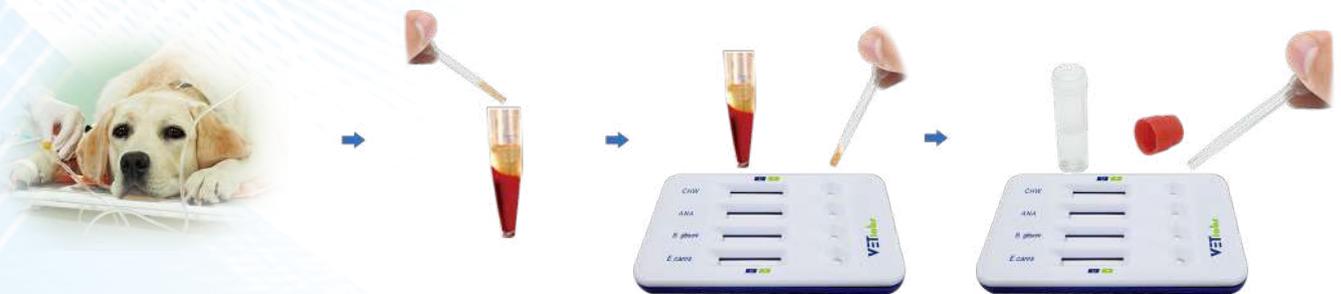
Bioguard VLabs 4X				
Samples	Dog's serum, plasma, whole blood			
Target	CHW Ag	E. canis Ab	Anaplasma Ab	Lyme Ab
Method	Immunochromatographic assay			
Sensitivity	89.55% vs. ELISA	93.55% vs. PCR	94.59% vs. PCR	95.00% vs. PCR
Specificity	98.94% vs. ELISA	96.86% vs. PCR	98.98% vs. PCR	96.67% vs. PCR

Kit Contents

COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
Foil pouches, each containing a cassette, disposable dropper and desiccant	5	10
EDTA blood collection tube	5	10
Assay buffer bottle	1	1
Instruction manual	1	1



Testing Procedure



Collect sample.

Use droppers to take serum samples (avoid red blood cells).

Place the test strips horizontally. Add 1 drop of serum samples into the sample well.

Immediately add 3-4 drops of the assay buffer into the well. Wait for 5-10 minutes.



Positive

Negative

Invalid

Results Interpretation:

Positive: The presence of both the C and T band, no matter T band is clear or vague.

Negative: Only the C band appears.

Invalid: No colored band appears in C zone, no matter whether T band appears.

Product Specifications

Product Name	Packing	Product Shelf Life
Bioguard VLabs 4X	5 kits/ box	24 months
	10 kits/ box	

VLabs 4BX

CHW Ag/ B.gibsoni Ab/ E. canis Ab/ Anaplasma Ab combo test

Kit Description

VLabs 4BX is a sandwich lateral flow immunochromatography assay, developed and manufactured by Bioguard Corporation, for rapid and qualitative detection of CHW antigen and B.gibsoni, E. canis, and Anaplasma antibodies in dog's blood.

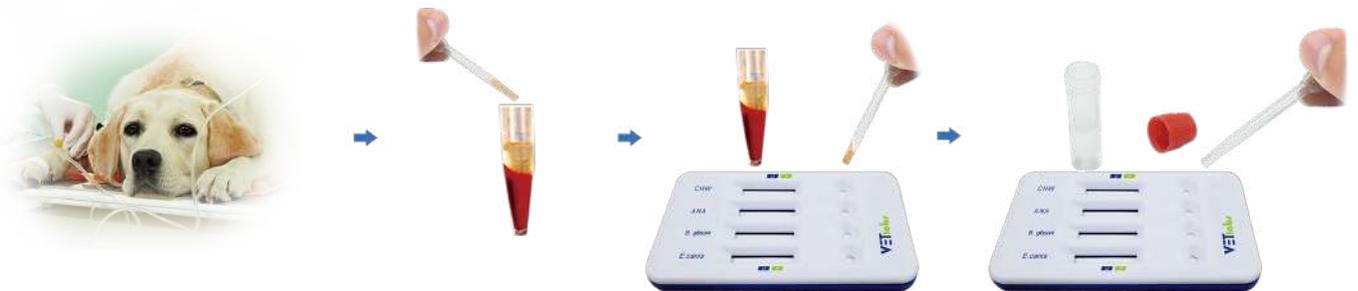
Bioguard VLabs 4BX				
Samples	Dog's serum, plasma, whole blood			
Target	CHW Ag	E. canis Ab	Anaplasma Ab	B.gibsoni Ab
Method	Immunochromatographic assay			
Sensitivity	89.55% vs. ELISA	93.55% vs. PCR	94.59% vs. PCR	92.13% vs. PCR
Specificity	98.94% vs. ELISA	96.86% vs. PCR	98.98% vs. PCR	94.59% vs. PCR

Kit Contents

COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
Foil pouches, each containing a cassette, disposable dropper and desiccant	5	10
EDTA blood collection tube	5	10
Assay buffer bottle	1	1
Instruction manual	1	1



Testing Procedure



Collect sample.

Use droppers to take serum samples (avoid red blood cells).

Place the test strips horizontally. Add 1 drop of serum samples into the sample well.

Immediately add 3-4 drops of the assay buffer into the well. Wait for 5-10 minutes.



Positive

Negative

Invalid

Results Interpretation:

Positive: The presence of both the C and T band, no matter T band is clear or vague.

Negative: Only the C band appears.

Invalid: No colored band appears in C zone, no matter whether T band appears.

Product Specifications

Product Name	Packing	Product Shelf Life
Bioguard VLabs 4BX	5 kits/ box	24 months
	10 kits/ box	

FPV Ag

Feline Panleukopenia Virus Ag Test

Feline Panleukopenia virus (FPV), also known as feline infectious enteritis or feline distemper, is a viral disease affecting cats.

FPV is primarily spread through contact with infected cat's bodily fluids, vomitus or feces. In addition, if a pregnant cat is infected, FPV can transmit from mother to the fetus. It often results in stillbirth or miscarriage.

Common symptoms are loss of appetite, fever, vomiting, diarrhea, and often death.

► Kit Description

Feline Panleukopenia Virus (FPV) Ag Test is a sandwich lateral flow immunochromatographic assay, developed and manufactured by Bioguard Corporation, for rapid and qualitative detection of Feline Panleukopenia Virus antigens in cat's feces.

Bioguard FPV Ag Test	
Samples	Cat's feces or vomit
Target	Feline Panleukopenia Virus Ag
Method	Immunochromatographic assay
Sensitivity	92.54% vs. RT-PCR
Specificity	92.54% vs. RT-PCR

► Kit Contents

COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
Foil pouches, each containing a cassette, disposable dropper and desiccant	5	10
Assay buffer tube	5	10
Sterile swab	5	10
Instruction manual	1	1



► Testing Procedure



Use sterile swabs to collect feces from cat's anus or from at least three different sites of feces.

Insert the swab into the tube. Agitate it to ensure the sample has been well dissolved in the buffer. Let it sit for 1 minute.

Take the upper layer by a dropper. (Avoid large particles to prevent the aggregation)

Place the test strips horizontally. Gradually add 4 drops of sample extraction into the sample well. Wait for 5-10 minutes.

Results Interpretation:
Positive: The presence of both the C and T band, no matter T band is clear or vague.
Negative: Only the C band appears.
Invalid: No colored band appears in C zone, no matter whether T band appears.

► Product Specifications

Product Name	Packing	Product Shelf Life
Bioguard FPV Ag Test	5 kits/ box	24 months
	10 kits/ box	

FCoV Ab

Feline Coronavirus Ab Test

Feline infectious peritonitis (FIP) is a viral disease, which is caused by Feline Coronavirus (FCoV). FIP is primarily transmitted through contact with infected cat's bodily fluids, vomitus or feces.

FIP manifests in a "wet" form and a "dry" form. Clinical symptoms of both forms include fever, loss of appetite, weight loss and lethargy. In addition, the wet form of FIP is characterized by accumulation of fluid in the abdominal or the chest cavity. Cats with fluid in the chest exhibit labored breathing. In the dry form of FIP, symptoms often occur in the kidneys, the liver or the neurologic system.

► Kit Description

Feline Coronavirus (FCoV) Ab Test is a sandwich lateral flow immunochromatographic assay, developed and manufactured by Bioguard Corporation, for rapid and qualitative detection of Feline Coronavirus antibodies in cat's blood.

	Bioguard FCoV Ab Test
Samples	Cat's serum, plasma
Target	Feline Coronavirus Ab
Method	Immunochromatographic assay
Sensitivity	88.57% vs. Western blot
Specificity	94.29% vs. Western blot

► Kit Contents

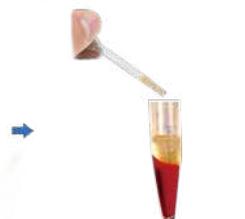
COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
Foil pouches, each containing a cassette, disposable dropper and desiccant	5	10
EDTA blood collection tube	5	10
Assay buffer bottle	1	1
Instruction manual	1	1



► Testing Procedure



Collect blood samples, separate serum from whole blood.



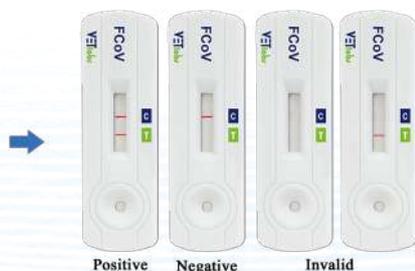
Use droppers to take serum samples (avoid red blood cells).



Place the test strips horizontally. Add 1 drop of serum samples into the sample well.



Immediately add 3-4 drops of the assay buffer into the well. Wait for 5-10 minutes



Results Interpretation:

Positive: The presence of both the C and T band, no matter T band is clear or vague.

Negative: Only the C band appears.

Invalid: No colored band appears in C zone, no matter whether T band appears.

► Product Specifications

Product Name	Packing	Product Shelf Life
Bioguard FCoV Ab Test	5 kits/ box	24 months
	10 kits/ box	

Toxoplasma IgM/IgG Ab

Toxoplasma gondii (T.gondii, Toxo) is a parasite, which is capable of infecting virtually all warm-blooded animals. Moreover, cats are the only definitive hosts in which Toxo can undergo sexual reproduction.

Toxoplasma IgM/ IgG Ab Test

Infection with toxoplasma usually causes no symptoms in most animals and adult humans. But if women get infected during pregnancy, it is harmful to the baby.

► Kit Description

Toxoplasma IgM/IgG Ab Test is a sandwich lateral flow immunochromatographic assay, developed and manufactured by Bioguard Corporation, for rapid and qualitative detection of Toxoplasma IgM/IgG antibodies in cat's blood.

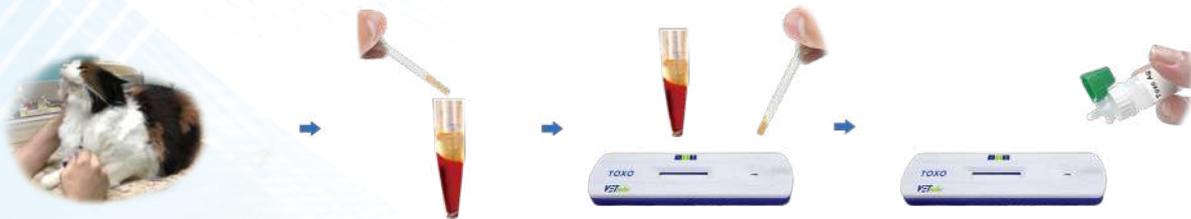
Bioguard Toxoplasma IgM/IgG Ab Test		
Samples	Cat's serum, plasma, whole blood	
Target	Feline Toxoplasma IgM Ab	Feline Toxoplasma IgG Ab
Method	Immunochromatographic assay	
Sensitivity	92.59% vs. ELISA	94.37% vs. ELISA
Specificity	100% vs. ELISA	100% vs. ELISA

► Kit Contents

COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
Foil pouches, each containing a cassette, disposable dropper and desiccant	5	10
EDTA blood collection tube	5	10
Assay buffer bottle	1	1
Instruction manual	1	1



► Testing Procedure



Collect blood samples, separate serum from whole blood.

Use droppers to take serum samples (avoid red blood cells).

Place the test strips horizontally. Add 1 drop of serum samples into the sample well.

Immediately add 4 drops of the assay buffer into the well. Wait for 5-10 minutes.



Results Interpretation:

Positive: The presence of both the C and T band, no matter T band is clear or vague.

Negative: Only the C band appears.

Invalid: No colored band appears in C zone, no matter whether T band appears.

► Product Specifications

Product Name	Packing	Product Shelf Life
Bioguard Toxoplasma IgM/IgG Ab Test	5 kits/ box	24 months
	10 kits/ box	

FeLV Ag/FIV Ab

Feline Leukemia Virus Ag/ Feline Immunodeficiency Virus Ab combo Test

Feline Leukemia Virus (FeLV) and Feline Immunodeficiency Virus (FIV) are both retroviruses, which vitally affect domestic cats populations. These viruses can transmit between cats through close contact, biting, or via food dish used by infected cats.

The symptoms are different among cats, for the mildest ones, infected cats can live relatively healthy as carriers and transmitters for many years. On the other hands, in the most severe cases, infected cats will die. Therefore, early detection helps maintain cat's health and prevents spreading infection to other cats.

► Kit Description

Feline leukemia Virus (FeLV) Ag/ Feline Immunodeficiency Virus (FIV) Ab Combo Test is a sandwich lateral flow immunochromatographic assay, developed and manufactured by Bioguard Corporation, for rapid and qualitative detection of FeLV antigen and FIV antibody in cat's blood.

Bioguard FeLV Ag/FIV Ab combo Test		
Samples	Cat's serum, plasma, whole blood	
Target	Feline Leukemia Virus Ag	Feline Immunodeficiency Virus Ab
Method	Immunochromatographic assay	
Sensitivity	98.04% vs. Virus isolation	97.50% vs. Western Blot Assay
Specificity	98.70% vs. Virus isolation	96.67% vs. Western Blot Assay

► Kit Contents

COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
Foil pouches, each containing a cassette, disposable dropper and desiccant	5	10
EDTA blood collection tube	5	10
Assay buffer bottle	2 (FeLV and FIV)	2 (FeLV and FIV)
Instruction manual	1	1



► Testing Procedure

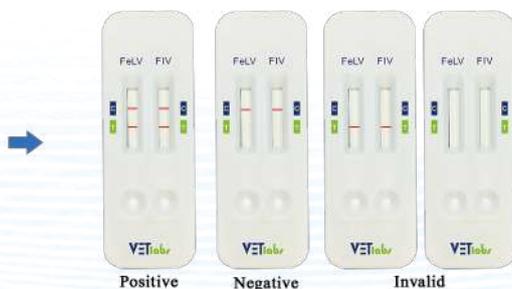


Collect blood samples, separate serum from whole blood.

Use droppers to take serum samples (avoid red blood cells).

Place the test strips horizontally. Add 1 drop of serum samples into the sample well.

Immediately add 4 drops of the assay buffer into the well. Wait for 5-10 minutes.



Results Interpretation:

Positive: The presence of both the C and T band, no matter T band is clear or vague.

Negative: Only the C band appears.

Invalid: No colored band appears in C zone, no matter whether T band appears.

► Product Specifications

Product Name	Packing	Product Shelf Life
Bioguard FeLV Ag/FIV Ab combo Test	5 kits/ box	24 months
	10 kits/ box	

Feline Blood type Test

► Kit Description

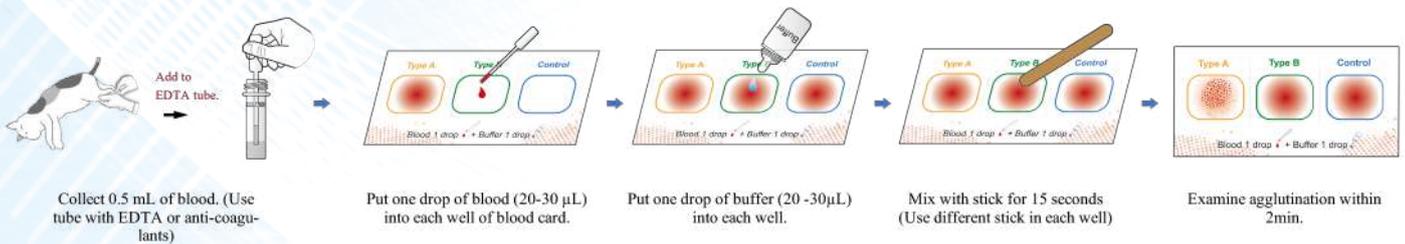
Feline Blood type Test, which is developed and manufactured by Bioguard Corporation, is based on the agglutination reaction and intended to classify cat blood

► Kit Contents

COMPONENTS	5 TESTS/BOX	10 TESTS/BOX
Plastic pouches, each containing blood typing kit, sticks and desiccant	5	10
Droppers	5	10
Buffer (3mL)	1	2
Blood typing card	5	10
Instruction manual	1	1



► Testing Procedure



► Results Interpretation

Type A	Type B	Type AB	False(+)
<p>Agglutination in well A</p>	<p>Agglutination in well B</p>	<p>Agglutination in well A and B</p>	<p>Agglutination in well control</p>

False(+): Bad conditioned blood or autoimmune-mediated hemolytic disease.

► Product Specifications

Product Name	Packing	Product Shelf Life
Feline Blood type Test	5 kits/ box	12 months
	10 kits/ box	

Peritonitis

Peritonitis Detection Kit

Peritonitis is usually considered as a fatal disease caused by feline coronavirus (FCoV). It occurs most in young cats from 3 month-old to 3 year-old.

Cats with peritoneal effusion are suspicious for Peritonitis infection, and Peritonitis detection kit is an effective approach to differentiate a transudate from an exudate.

▶ Kit Description

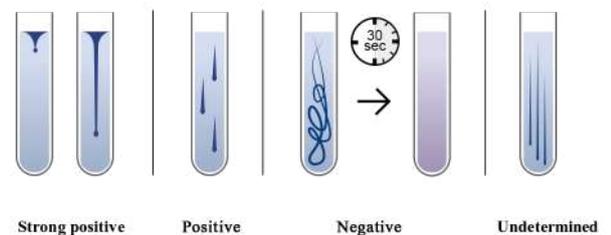
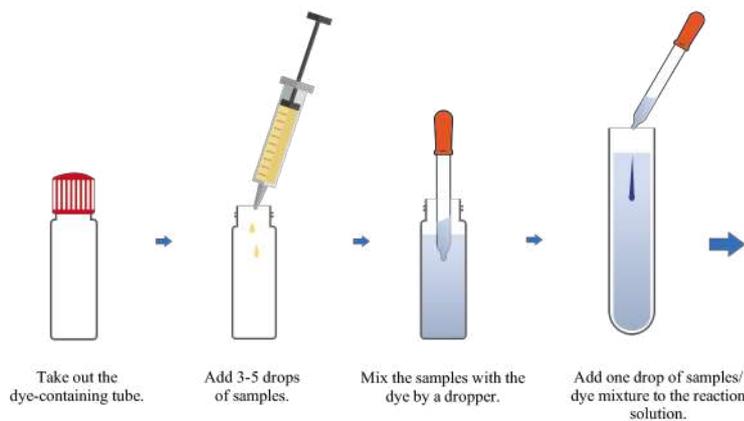
Peritonitis Detection Kit, which is developed and manufactured by Bioguard Corporation, can differentiate a transudate from an exudate. It is fast, simple and reliable to detect or exclude a Peritonitis infection in cats.

▶ Kit Contents

COMPONENTS	10 TESTS/BOX
Reaction tubes, containing acetic acid solution	10
Droppers	10
Dye-containing tubes	10
Instruction manual	1



▶ Testing Procedure



Results Interpretation:

Strong positive: Blue, floating teardrop-shaped drops contact to the surface of the reaction solution.

Positive: Blue, jellyfish-like drops slowly sink down to the bottom.

Negative: Blue drops disappear gradually and the solution becomes light blue.

Undetermined: Blue, unstable drops dissolve quickly in the solution.

▶ Product Specifications

Product Name	Packing	Product Shelf Life
Peritonitis Detection Kit	10 kits/ box	24 months

Antibiotic Susceptibility Test

Kit Description

Antibiotic Susceptibility Test, which is developed and manufactured by Bioguard Corporation, provides antibiotic susceptibility results for veterinarians' reference in only 12-24 hours.

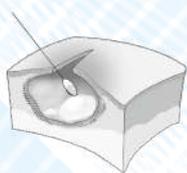
Kit Contents

COMPONENTS	4 TESTS/BOX	8 TESTS/BOX
Test kits, contents: plate, Media A (4mL), Media B (1 mL), cap, swab, recording sheet	4	8
Accessory cards	1	2
Colorimetric card	1	2
Instruction manual	1	1

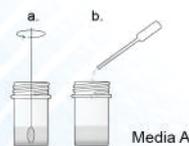


Testing Procedure

I. Swabs, feces and pus



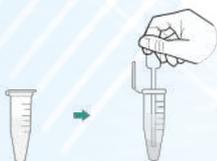
Collect sample.



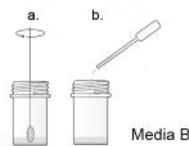
Direct inoculation

- Take sample by a sterile specimen swab into media A, agitating.
- Add 0.5 mL urine or sediment into media A. Removed 0.5 mL medium from plate after mixing it well.

II. Urine



Collect sample and add 0.5 mL of sediment into media A.



Preincubate (increase amount of bacteria)

- Take sample by a sterile specimen swab into media B, agitating.
- Add one drop urine into media B.

Incubated at 35-37°C for 12-16 hours.

Add one drop media B into media A.



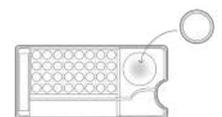
Add media into the sample well.



Lean the plate at least 45 degree until media reach sponge.



Place the plate horizontally into the incubator (35-37°C).



Seal the plate with the cap.

Results Interpretation



Example	High concentration (B & D)	Low concentration (A & C)	Interpretation
Ciprofloxacin	Clear	Clear	Recommended for use
Amoxicillin	Muddy	Muddy	Not recommended for use
Azithromycin	Clear	Muddy	High dose is recommended
Augmentin	Muddy	Clear	Uninterpretable

- 1) Make the plate vertical and turn the bottom side up.
- 2) Match the accessory card with the plate, observe the colors in each well.
- 3) Compare the results with reference.
- 4) Record the result on the form.

*Use the Colorimetric card as reference if it's difficult to interpret the results. Use 0-4 as clear, 5-9 as muddy instead. However, the clearest one should be the top priority for the administration.

*Can't rule out the possibility of undetectable or no bacteria in the samples if the results of all wells are clear. Recommend interpreting the results when the control well is above 5.

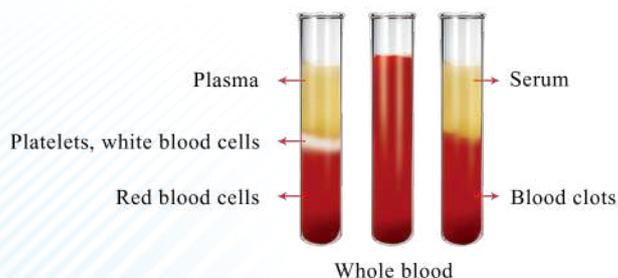
Product Specifications

Product Name	Packing	Product Shelf Life
Antibiotic Susceptibility Test	4 kits/ box	12 months
	8 kits/ box	

Question & Answer

I. Preparation and Collection of Samples

Q₁ What's the difference between whole blood, plasma and serum?



A **Whole blood:** When the blood is collected into a tube that contains anti-coagulants and mixed with anti-coagulants. Whole blood contains blood cells and plasma.
Plasma: When the mixture of anti-coagulants and whole blood are centrifuged, the yellow upper layer without blood cells is the plasma.
Serum: The blood is collected into a tube without anti-coagulants and allowed to clot. After centrifuging, the serum is the yellow upper layer that separates from the clotted blood.

Q₂ How to collect and preserve samples of feces?



A Use sterile swabs to collect feces from dog's anus or from at least three different sites of feces. And combine these feces in the sample buffer. Feces should be tested as soon as they are collected. Feces can be preserved about 12 hours at room temperature, and about 24 hours at 2-8°C. DO NOT use feces that are not preserved properly.

Q₅ What's the minimum amount of the ocular or nasal secretions? Could I combine them together?

A Make sure that sterile swabs are covered by the ocular or nasal secretions as much as possible. We recommend that samples from different body parts should be tested separately. However, if there are not enough samples, the ocular and nasal secretions can be tested together.

II. Testing Procedure

Q₁ Do rapid test kits need to be stored in the refrigerator or in the freezer?

A Please store rapid test kits in a dry place at room temperature. Avoid direct sunlight. If it is stored in the refrigerator, let it recover at room temperature before using it. Please DO NOT FREEZE.

Q₂ Why doesn't the sample solution flow through test strips properly?

A After putting sterile swabs with samples in the buffer, let large particles precipitate for 1 minute. Then only take the upper layer onto test strips to prevent the aggregation. For whole blood samples, if the sample solution does not flow properly, add 1-2 more drops of the buffer.

Q₃ Is it ok to mixedly use different buffers from different kits?

A No. Please only use the buffer within the kits. Results can't be guaranteed if the buffers from different lot numbers are used in the test.

Q₄ Could I change the amount of the buffer being added?

A Please follow the instructions, add only 2-3 drops of the buffer.
Adding too much buffer might cause the sample solution running too fast, and reduce the sensitivity of tests.
If flow rate is too slow, add 1-2 more drops of the buffer to increase its velocity.

Q₃ How to collect the ocular secretion?



A Use sterile swabs to collect the ocular secretion from the conjunctiva.
It would be helpful to wet sterile swabs with saline water before collection.

Q₄ How to collect the nasal secretion?



A Use sterile swabs to collect the nasal secretion from the nasal cavity.
It would be helpful to wet sterile swabs with saline water before collection.

III. Results Interpretation

Q₁ Are results still valid after 15 minutes?

A Results are ONLY valid within 10 minutes. After 10 minutes, false positive results might appear. Results are invalid.

Q₂ How to interpret results if the Test band is faint?

A If infected dogs/ cats are latent, the amount of viruses might be fewer in the samples. The T band might be faint in the first 3-5 minutes, but it will become clearer in 10 minutes.

Q₃ What should I do if results are different from clinical symptoms?

A The Bioguard Canine/ Feline Rapid Test Kits are for in vitro veterinary diagnosis only. Please consult all other clinical symptoms and use other diagnostic methods (i.e. PCR), to ensure an accurate diagnosis.

Q₄ How to interpret results if the Test band appears in 10 minutes, but it disappears after that?

A This is due to the high concentration of viruses in the samples. If this happens, please redo the test with diluted samples.

Q₅ How to interpret results if the Control band appears in 10 minutes, but it disappears after that?

A This is due to samples are contaminated with other antibodies. If this happens, please redo the test with fresh samples.

Q₆ Is it ok that the colors of the Test band and the Control band are different?

A It won't affect the interpretation of results.
The Control band should appear during all tests to clarify a valid result, no matter its color is bright or dark.



6F. No.20-1. Wu-Kong 5th Road, New Taipei Industrial Park,
New Taipei City, Taiwan
Tel: +886-2-5591-6688 | Fax: +886-2-6625-8182
E-mail: service@bioguard.com.tw | Web: www.bioguard.com.tw