

# ONE STEP Feline Corona Virus Antigen and Antibody Test

For veterinary diagnostic use only

## Anigen Rapid FCoV Ag/Ab Test Kit

### Principles

The **Anigen Rapid FCoV Ag/Ab Test Kit** is a chromatographic immunoassay for the qualitative detection of Feline Corona virus (FCoV) antigens in feline feces and antibodies in feline whole blood, serum, or plasma.

The Anigen Rapid FCoV Ag/Ab Test Kit has two letters which are test (T) line and control (C) line on the surface of device. The control line is a reference line which provides the test is performing properly. The control line has to appear every time when the test has performed. If FCoV antigens and/or antibodies against FCoV are present in sample, a purple test line would appear in the result window.

The highly selective recombinant FCoV antigens and antibodies to FCoV are used as a capture and detector in the assay. These antigens and antibodies are capable of detecting FCoV antibodies and antigens in feline samples with high accuracy.

### Materials provided (5 Tests/Kit)

Reagent		5 Tests/Kit
	Anigen Rapid FCoV Ag/Ab Test Device	5
FCoV Ag	Assay diluents tube	5
	Disposable dropper	5
	Disposable swab	5
FCoV Ab	Assay diluents bottle	1
	Disposable capillary tube	5
	Anticoagulant tube	5
	Instructions for use	1

♣ A black line on the capillary tube is the indicator line for 10 µl.



### Materials required, but not provided

Timer

### Precautions

- 1) The kit is for feline use only. Do not apply to other animals.
- 2) The test device is sensitive to humidity as well as heat. Perform the test immediately after removing the test device from the foil pouch.
- 3) Do not reuse test components.
- 4) Apply the assay diluents and sample vertically.
- 5) Do not touch the membrane in the result window of test device.
- 6) Do not use the test kit beyond the stated expiration date marked on the label.
- 7) Do not use the test kit if the pouch is damaged or the seal is broken.
- 8) Do not mix components from different lot numbers because the components in this kit have been quality control tested as standard batch unit.
- 9) All sample should be handled as being potentially infectious. Wear protective gloves while handling samples. Wash hands thoroughly afterwards.
- 10) Decontaminate and dispose of all samples, used kits and potentially contaminated materials safely in accordance with national and local regulations.

### Storage and Stability

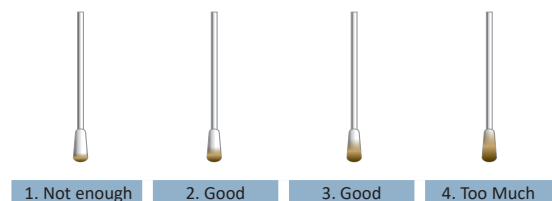
- 1) Store the test kit at 2~30°C. **DO NOT FREEZE.**
- 2) Do not store the test kit in direct sunlight.
- 3) The test kit is stable within the expiration date that marked on the package label.

### Collection and Preparation of Sample

#### [FCoV Ag]

- 1) Feline feces swab should be used for this test.
- 2) The samples should be tested immediately after collection.
- 3) If samples are not tested immediately, they should be stored at 2~8°C for 24 hours. For longer storage, freeze at -20°C or below. Frozen samples should be brought to room temperature (15~30°C) prior to use.
- 4) The amount of fecal swab may affect the results. It is required to follow the swab amount of feces as shown in the picture on the left side.

Excessive fecal amount may induce a false positive result and slow migration.



#### [FCoV Ab]

- 1) Feline whole blood, serum, or plasma should be used with this test.
  - [Whole blood]** Collect the whole blood into the anti-coagulant tube (Max. vol. 1.5ml) provided. If anti-coagulated whole blood is not used immediately or tested within 24 hours, it should be refrigerated at 2~8°C.
  - [Serum]** Collect the whole blood into the collection tube (NOT containing anticoagulants such as heparin, EDTA and sodium citrate), leave to settle for 30 minutes for blood coagulation and then centrifuge to get serum supernatant.
  - [Plasma]** Collect the whole blood into the collection tube (containing anticoagulants such as heparin, EDTA and sodium citrate) and then centrifuge to get plasma.
- 2) If serum or plasma samples are not tested immediately, they should be stored at 2~8°C. For longer storage, freeze at -20°C. Frozen samples should be brought to 15~30°C prior to use.
- 3) Samples containing precipitate may yield inconsistent test results. Such samples must be clarified prior to assaying.
- 4) The use of hemolytic or bacterially contaminated samples should be avoided. Erroneous result may occur.

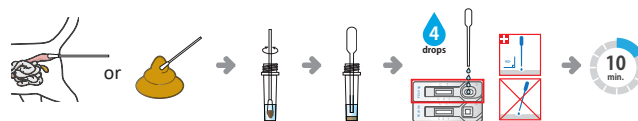
### Procedure of the Test

Perform the antigen test and antibody test separately as below.

#### [FCoV Ag]

- 1) All reagents must be at room temperature (15~30°C) before use.
- 2) Collect feces samples using a swab.
- 3) Insert the swab into the sample tube containing assay diluents and mix the swab for 10 seconds.
- 4) Recap the sample tube and mix it by inverting it 3-5 times.
- 5) Wait for 1 minute to settle down the feces.
- 6) Remove the test device from the foil pouch, and place it on a flat and dry surface.
- 7) Using the disposable dropper, take the supernatant sample in the tube.
- 8) **Apply four (4) drops of sample** into the sample hole, drop by drop vertically.
- 9) Start the timer. The sample will flow across the result window. If it does not appear after 1 minute, add one more drop of prepared sample to the sample hole.
- 10) Interpret test results at **10 minutes**. Do not read the result after 20 minutes.

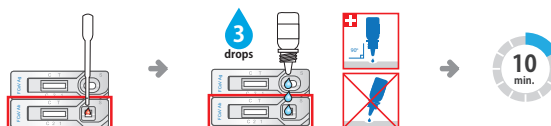
#### [Test Procedure]



#### [FCoV Ab]

- 1) All reagents and samples must be at room temperature (15~30°C) before use.
- 2) Remove the test device from the foil pouch, and place it on a flat and dry surface.
- 3) Using the disposable capillary tube, add **10ul of sample** into the sample hole, and then add **3 drops of the assay diluents**.
- 4) Start the timer. The sample will flow across the result window. If it does not appear after 1 minute, add one more drop of assay diluents to the sample hole.
- 5) Interpret test results at **10 minutes**. Do not read after 20 minutes.

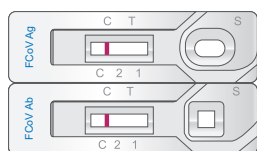
#### [Test Procedure]



## ■ Interpretation of the Result

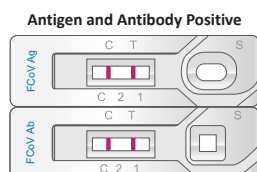
### 1) Negative result

Only control ("C") line appears in the result window.

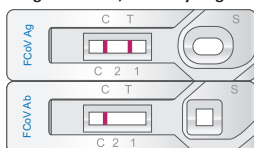


### 2) Positive result

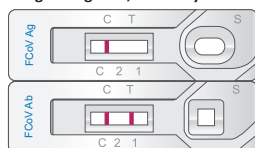
Test ("T") line and control ("C") line appear within the result window to indicate the presence of FCoV antigen and/or antibody against feline corona virus.



#### Antigen Positive, Antibody Negative

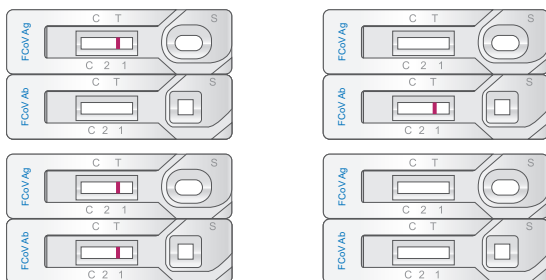


#### Antigen Negative, Antibody Positive



### 3) Invalid Result

If the control ("C") line does not appear, the result might be considered invalid. The samples should be re-tested.



## ■ Limitations of the Test

- 1) Although the Anigen Rapid FCoV Ag/Ab Test kit is very accurate for detecting Feline Corona virus antigens and antibodies, a low incidence of false results can occur. Other clinical and/or laboratory tests might be required if questionable results are obtained. As other diagnostic tests, a definitive clinical diagnosis should not be based on the result of a single test, but should be diagnosed by veterinarian after all clinical and laboratory findings have been evaluated. The detection limit of FCoV Ag is about  $1.97 \times 10^{4.0} \text{TCID}_{50}/\text{ml}$ .
- 2) The reading window may show a light pink background coloration; this will not affect the accuracy of the results.
- 3) BioNote and its distributors cannot be held responsible for the consequences of misuse or misinterpretation of the results given by the test.