

[Click Here For More Information About](#)

FASTest® CCoV Strip

ad us. vet.



In vitro diagnosticum

Test-kit for the qualitative detection of Canine Coronavirus antigens in faeces of the dog

INSTRUCTIONS FOR USE

Supplied Exclusively To The UK
Veterinary Market By
Vetlab Supplies Ltd
Visit Our Website
www.vetlabsupplies.co.uk
Telephone: 01798 874567
email us: info@vetlabsupplies.co.uk



Manufacturer:
DIAGNOSTIK MEGACOR
6912 Hörbranz – AUSTRIA
www.megacor.com

1. INFORMATION ON THE TEST-KIT

TEST-KIT COMPONENTS

1 test-kit **FASTest® CCoV** Strip contains:

- 2 or 10 dipsticks coated with monoclonal antibodies
- 2 or 10 sample tubes with 2.0 ml buffer diluent each
- 1 instructions for use

STABILITY AND STORAGE

Store at
15–25°C
15–25°C

Expiry date
– see label

APPLICATION AND ABBREVIATIONS



For veterinary use only

LOT

Lot number



In vitro diagnosticum



Do not use test-kit components from different kits, lot numbers or beyond stated expiry date.



Follow instructions for use precisely

TL – TEST line, **CL** – CONTROL line, **LF** – Lateral flow

LIABILITY

The entire risk due to the performance of this product is assumed by the purchaser. The manufacturer shall not be liable for indirect, special or consequential damages of any kind resulting from the use of this product.

ACCURACY

Sensitivity 93.6%
Specificity 97.4%
(Comparison Method: RT-PCR)

2. INTRODUCTION

The Canine Coronavirus (CCoV) belongs to the most common causal agents of viral enteritides in dogs of all ages. Due to its high infectiveness, group husbandry encourages the onset of a CCoV infection with clinical symptoms. The antibody prevalence is indicated with up to 54 % for pet dogs and 80% for kennel dogs.

The infection takes place orally via infected faeces (elimination ca. 3–14 days post infection) or by direct contact with infected animals.

A pure CCoV infection is characterized by a mild, often self-limiting course with anorexia, apathy and more or less severe diarrhoea. Newborn puppies often show a severe course of the disease. Unspecific signs of enteritis like diarrhoea, respiratory or central nervous symptoms can occur.

Clinically, a CCoV infection can hardly be differentiated from a mild CPV infection, but a CCoV infection never shows a leukopenia. The infection course can be transient (shedding ceases after several months, healthy dog) as well as persistent (life-long elimination in case of dogs with or without chronic diarrhoea).

Due to co-infections (25% of all cases of canine enteritis) of CCoV with Canine Parvovirus (CPV), fatal courses with a mortality of 80% occur. In these cases, the fast on-site identification of the pathogen is inevitable.

By using the **FASTest® CCoV** Strip the veterinarian is able to detect or exclude a CCoV infection fast and specifically on-site. In case of co-infection with CPV, a prognosis for the further progress of disease should be made carefully.

3. INFORMATION ON THE SPECIMEN MATERIAL

Due to the normally inhomogeneous or nest-like dissemination of antigens in the faeces, the specimen material has to be mixed up homogeneously (spatula, vortex-mixer) before sampling.

For the test, the required amount of faeces as described in point 4b/Specimen collection and preparation, is needed. The amount depends on the consistency of the sample. Use the attached spoon.

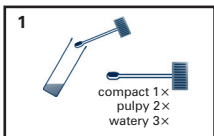
Non-cooled (15–25°C), the sample should be tested within 4 hours! At 2–8°C, the sample can be stored up to 4 days, permanently at minimum –20°C.

Keep in mind that the sample material, as well as all used test-kit components, should have reached **room temperature** at the time of application.

Endogeneous and exogeneous interfering substances of the sample (e.g. proteases, mucosa components, blood, but also viscosity, pH-value as well as grass and cat litter) **can cause interferences** (matrix effects) **that can influence the target measurement. These can lead to an impaired LF and/or unspecific reactions on the TL and CL.**

4. SPECIMEN COLLECTION AND PREPARATION

- Open the sample tube with the buffer diluent.
- Mix the faeces sample homogeneously (applicator, vortexer). Then mix the required sample volume (**compact**:



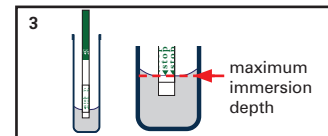
1 level spoon, pulpy; 2 level spoons, fluid-watery; 3 level spoons of faeces) steadily into the buffer diluent (fig.1).

- Close sample tube tightly and rotate it easily to get the mixture as homogeneous as possible (fig.2).

- For sedimentation of gross faeces particles place the sample tube on a flat and horizontal surface for 1–5 minutes.

5. TEST PROCEDURE

- Remove the dipstick from its foil pouch shortly before use.
- Introduce the dipstick vertically and with the arrows pointing downwards into the sample tube for at least 1 minute. The liquid level (meniscus!) must not exceed the green arrowheads (fig.3).
- Remove the dipstick from sample tube as soon as the sample-buffer mixture (SBM) has reached the CL. If so, the pink-purple CL will appear slowly but surely (fig.4/5). If the CL does not appear after 5–10 minutes, a new SBM must be prepared and sedimented for at least 5 minutes. The dipstick must be held only in the supernatant until the LF has reached the CL (see also 7. Precautions for users*).
- Place the dipstick on a flat and horizontal surface for incubation.



6. READING OF THE TEST RESULT



Read the test result after **5 (max. 10) minutes**. Positive test results may be observed earlier, depending on the concentration of antigen in the sample.

POSITIVE TEST RESULT (fig.4)

A **pink-purple TEST line of any intensity** (varying from very weak to strongly intensive) and a **pink-purple CONTROL line** appear.

NEGATIVE TEST RESULT (fig.5)

Only a **pink-purple CONTROL line** appears. This line indicates, irrespective of its intensity, that the test has been performed properly.

INVALID TEST RESULT

No CONTROL line visible. The test should be repeated using a new dipstick*.

fig.4

POSITIVE TEST RESULT



fig.5

NEGATIVE TEST RESULT



7. PRECAUTIONS FOR USERS

- The guidelines for working in medical laboratories must be observed. It is recommended to wear disposable gloves and other personal protective equipment (protective clothing, possibly a face mask). Wash and disinfect hands after completing the test.
- Label sample material and associated sample tube to ensure a precise assignment.
- Use a new sample tube and a new dipstick for each sample.
- The buffer diluent contains low concentrations of toxic sodium azide as a preservative, therefore avoid skin/eye contact and/or ingestion.
- The sample material must be seen as potentially infectious and disposed of accordingly, together with the used test-kit components.

* To avoid an application error/external influence (e.g. too much sample material, too short sedimentation time, components in the faeces that clog the pores of the suction pad), the test can be repeated. Use a new dipstick and carefully observe the sample preparation. It is advisable to only hold the dipstick in the supernatant when repeating the test until the LF has reached the CL.

8. TEST PRINCIPLE

The **FASTest® CCoV** Strip is based on latest rapid immunochromatographic technique.

Positive faeces samples contain Canine Coronavirus antigens. These antigens will react in the conjugate pad area with mobile monoclonal anti-Canine Coronavirus antibodies (anti-CCoV mAbs), which are bound to colloidal gold particles. Migrating ("lateral flow", **LF**) along the nitrocellulose membrane, these specific antigen-antibody complexes are bound by fixed anti-CCoV mAbs producing a pink-purple TEST line (**TL**). These anti-CCoV mAbs guarantee a high level of specificity for the aetiological detection of Canine Coronavirus antigens.

A correct test procedure will be indicated by a second, pink-purple CONTROL line (**CL**).

9. INFORMATION FOR THE INTERPRETATION

- The interpretation of the test result should always be based on anamnestic and clinical data as well as the therapy and prophylaxis possibilities.
- Any non-described colour or contour variation of TL and CL within the indicated incubation time or after more than 10 minutes (e.g. greyish, shadow-like lines) has to be considered as unspecific reaction and therefore as negative test result.
- TL can vary both in intensity (from weak to intense pink-purple) and width. Therefore, any pink-purple line appearing within the required incubation time is to be interpreted as a positive test result.
- A negative test result does not exclude a CCoV infection due to discontinuous CCoV shedding or CCoV concentration below the cut-off of the test. To reliably identify chronic shedders, ideally 5 tests in weekly intervals should be done. After 3 negative tests, for the last two tests, collection samples (individual testing of at least three consecutive faeces samples) should be preferred to single samples.