MEDIAN Diagnostics Inc.

VDRG® CPV/CCV/Giardia Ag Rapid kit

Cat No. PC-CCG-11

For *in-vitro* animal diagnostic use only

PRINCIPLES

VDRG® CPV/CCV/Giardia Ag Rapid kit is a lateral flow chromatographic immunoassay for the detection of Canine parvovirus(CPV), Canine coronavirus (CCV) and Giardia antigen in canine feces.
This is a diagnostic kit to detect CPV , CCV and giardia antigen by mixing canine feces with dilution buffer followed by putting them into the sample hole. If there are CPV antigens in the canine feces, these antigens bind to CPV specific antibody-gold particle conjugates and move on the membrane by capillary forces, and then shows a red line on the CPV side test line due to the binding with CPV specific antibodies which are already applied on the membrane. Similarly, red lines appear in the CCV side test line when CCV antigen exists and lines appear in the Giardia test line when Giardia antigen exists. This test kit, the diagnostic reagent can detect CPV/CCV/Giardia antigens quickly and simply within 10 minutes after injection of samples.

KIT COMPONENTS

No.	Components	10 Tests/kit
1	CPV/CCV/Giardia Ag Rapid device	10 Tests
2	Sample dilution buffer for CPV/CCV Ag (P)	10 vials
3	Sample dilution buffer for Giardia Ag (G)	10 vials
4	Swabs	20 ea
5	Dropper	20 ea
6	Instruction Manual	1 copy

APPEARANCE

1. **In a test device :** The kit in the form of a tie-up of three independent kits has a special application round holes (S) at the bottom of kit. The location of the test (T) and control (C) lines are marked on the display. Inside the device, there is a test strip with sample pads, degrade separation pads, coupled pads, nitro-cellulose membranes, and absorption pads superimposed one after another.
2. **Sample dilution buffer :** Buffers for CCV/CPV and for Giardia are divided. There is a colorless or faint yellow liquid buffer in the plastic container for dilution of a sample.

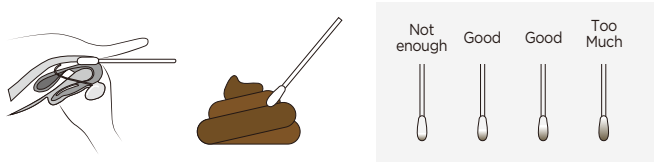
SAMPLE PREPARATION

1. Use canine feces as samples.
2. Take the sample by pricking inside of feces deeply or pulling out directly through dog's anus.
3. If testing within 24 hours after collecting, the samples should be refrigerated (2~8 ℃), and if testing after long term storage, the samples should be frozen (below -20 ℃).

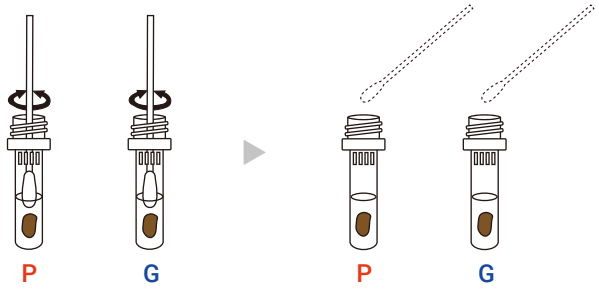
TEST PROCEDURE

1. Collect the fecal sample from the stool or rectum using the sample colltection swab.
2. Put the sample into the container that contains sample dilution buffer and stir well the solution with a swab in order to extract the viurs from the fecal sample thoroughly.
3. Place the tube upright until the large particles go down(20sec).
4. Take the supernatant of sample solution using dropper, and then add 4 drops into the sample hole on the test device.
5. Read test results at 10 minutes.

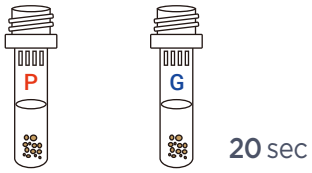
1. Collect the fecal sample



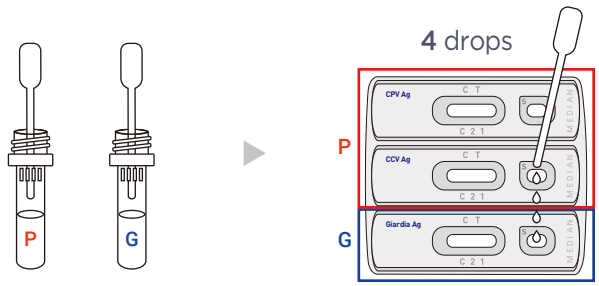
2. Sample dilution



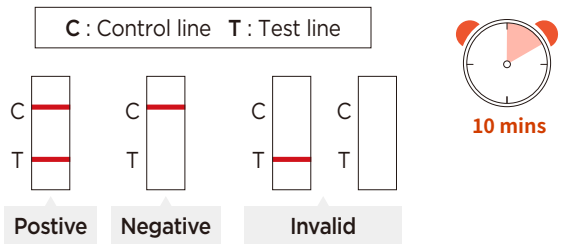
3. Place the dilution tube



4. Drop the sample solution (4 drops)



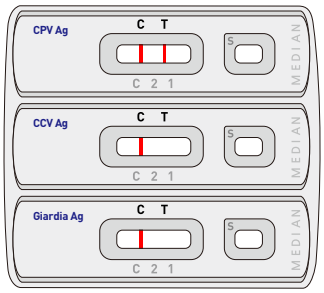
5. Read the result (in 10 minutes)



INTERPRETATION OF RESULT

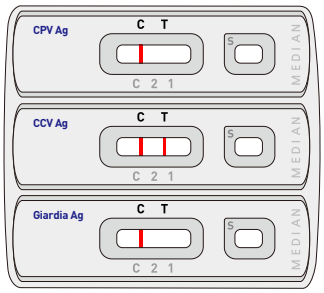
1. CPV Positive

When there are both control line and test line on the CPV side.



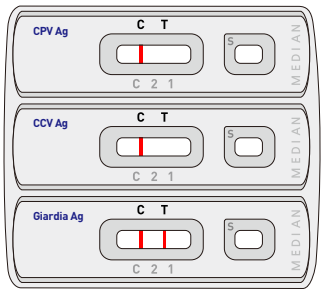
2. CCV Positive

When there are both control line and test line on the CCV side.



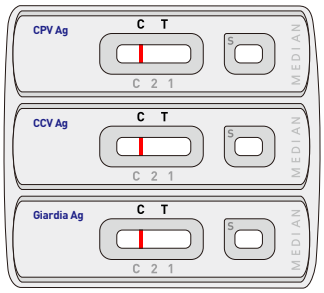
3. Giardia Positive

When there are both control line and test line on the Giardia side.



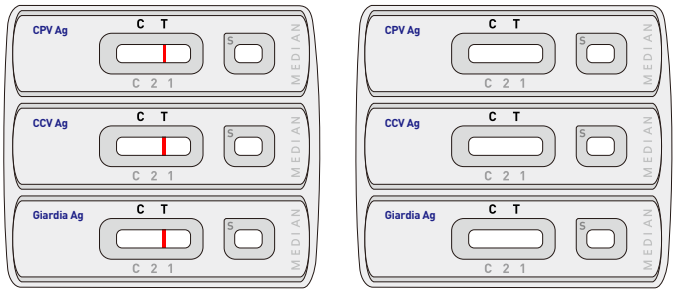
4. Negative

When there is a control line but no test line.



5. Re-test

When there is a test line but no control line, or there are no control line and test line.



* Regardless of antigen presence, a control line should always appear. The control line is needed to check whether abnormal reaction occurs or not, so if there is no control line, re-test should be performed.

PRECAUTIONS

1. For *in-vitro* animal diagnostic use only.
2. Read this instruction manual thoroughly and follow all steps strictly for successful use of the product.
3. Use CPV/CCV buffer and Giardia buffer divided.
4. Extended exposure of this Rapid Test Device to moisture may decrease test performance. Therefore, open the device right before use (<10 minutes).
5. Make sure to use a separate test tube, dropper, and cotton swab for each sample.
6. Do not touch the membrane in the device. The results may be affected.
7. Do not use test device and reagents after expiration date.
8. Wear personal protective equipment (PPE) such as lab coat, goggle, and disposable gloves while performing the assay. Wash hands thoroughly afterwards.
9. All test samples should be considered potentially infectious and all items contacting the samples should be considered contaminated.
10. After use, all wastes should be sterilized with high-pressure steam at 121 degrees Celsius for ≥15 minutes or comparable methods.
11. This Rapid Kit is made for preliminary test only. The result should be confirmed by other laboratory tests for final diagnosis.

STORAGE AND STABILITY

Store all reagents at 2~30℃. Do not freeze. Reagents remain stable until the expiration date marked on the package label.

MEDIAN Diagnostics

MEDIAN Diagnostics Inc.

878, Sunhwan-daero, Dongnae-myeon, Chuncheon-si,
Gangwon-do, 24399, Republic of Korea

Tel: +82 (0)33 244 0100

Fax: +82 (0)33 244 4634

E-mail: median@mediandx.com