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DANGER

Chromogen Substrate: Danger. Causes serious eye irritation. May damage the unborn child. May cause cancer. Harmful to aquatic life with long lasting effects. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid release to the environment. If exposed or concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

FELINE INFECTIOUS PERITONITIS VIRUS ANTIBODY TEST KIT

ViraCHEK™ | cv — ENGLISH

For the detection of Feline Corona Virus (FeCV) antibodies in feline serum or plasma.

GENERAL INFORMATION AND INTENDED USES

ViraCHEK™ CV is highly specific, sensitive and simple to perform for the detection of Feline Corona Virus (FeCV) antibodies. Test results can be obtained in 30 minutes. The diagnostic kit contains a positive control and a negative control which should be included each time the assay is performed. Visual comparison of the color of samples to the negative control will allow accurate detection of the presence of FeCV antibody in the sample.

The plastic wells are coated with purified coronavirus antigen. Protein A derived from Staphylococcus aureus is conjugated to HRP. The serum or plasma sample is incubated in the coated wells followed by incubation with the Protein A conjugate. Antibodies to FeCV, if present in the feline sample, are bound to the well and in turn bind the Protein A conjugate. The free enzyme-linked Protein A is washed away and a chromogenic substrate is added. The development of a distinctly blue color indicates the presence of antibody to FeCV. In the absence of FeCV antibody, no color change will be observed.

KIT COMPOSITION AND CONSERVATION

Contains materials sufficient to test 32 - 94 samples.

ITEM	REAGENT NATURE	VOLUME	RECONSTITUTION AND CONSERVATION
A	FeCV Antigen Coated Wells	2 sets of 4x12 wells	Ready to use. CDV wells have a white rim.
CONTROL +	Positive Control	1,5 mL	Ready to use. Red Cap.
B	Negative Control/Sample Diluent; preserved with Phenol and Gentamicin sulfate	5,0 mL	Ready to use. Gray Cap.
C	Conjugate	5,0 mL	Ready to use. Blue Cap.
D	Chromogen	7,5 mL	Ready to use. Green Cap.
E	Substrate Buffer; preserved with Sodium Benzoate	7.5 mL	Ready to use. White Cap.
F	10X Wash Concentrate; preserved with Gentamicin sulfate.	100 mL	Dilute to 1X in deionized or distilled water. Orange Cap. Diluted Wash Solution may be stored at 2 - 7 °C.
	Disposable Sample Loops	2 bags x 48 loops	Ready to use.
	Well Holder	1	Ready to use.

Note: All reagents provided in the kit should be stored at 2 – 7 °C. Reagents should not be frozen.

REAGENTS REQUIRED TO PERFORM 24 TESTS

a) 4 x 12 FeCV Antigen Coated Strips (2 sets)
b) 1,5 mL Positive Control
c) 5,0 mL Negative Control/Sample Diluent
d) 5,0 mL Conjugate
e) 7,5 mL Chromogen
f) 7,5 mL Substrate Buffer
g) 100 mL 10X Wash
h) 1 Well holder

EQUIPMENT AND MATERIALS REQUIRED BUT NOT PROVIDED

a) Deionized or distilled water
b) 2 Squirt bottles
c) Timer

WARNINGS TO THE USERS OF REAGENTS AND ANTIBODY COATED PLATES

- Handle all reagents and samples as biohazardous material. It is recommended to dispose reagents and contaminated material according to the applicable regulations.
- Wear suitable protective clothing.
- Irritating to eyes and skin. Keep all reagents away from eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Take care not to contaminate any test reagents with serum or bacterial agents.
- The best results are achieved by following the protocols described below, using good, safe laboratory techniques.
- Do not use this kit or any of its contents after the expiration date.
- Do not intermix components from different serial numbers.
- Use a separate sample loop for each sample.
- Do not expose kit to direct sunlight.
- NEVER PIPETTE BY MOUTH. Harmful if swallowed.

SAMPLE COLLECTION AND STORAGE

- Follow proper sample collection procedures.
- Harvest serum and store properly (up to seven days at 4 °C; -20 °C for longer).
- Test only good quality serum or plasma (i.e. avoid bacterial contamination, heavy hemolysis or clotted fat). When in doubt, obtain a better quality sample.
- Allow all reagents to come to 21 – 24 °C before starting.

PREPARATION OF WASH SOLUTION

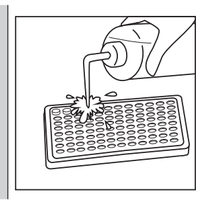
Allow 10X wash concentrate to come to ambient temperature. Mix gently by inversion. Dilute wash concentrate 10-fold with distilled or deionized water (1 part concentrate to 9 parts deionized or distilled water) in a squirt bottle. Diluted wash solution may be stored at 2 - 7 °C

TEST PROCEDURE

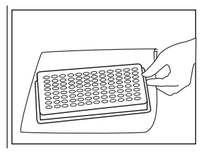
STEP	NOTES
	SET UP AND SAMPLE INCUBATION
1)	Remove and place in well holder one well for Positive Control, one well for Negative Control, and one well for each sample. Leave the wells attached to each other.
2)	Add **1 drop** of Positive Control (**Red Cap**) into the first well.
3)	Add 1 drop of Negative Control/Sample Diluent (**Bottle B - Gray Cap**) into the second well **and to each test sample well.**
4)	**Using a separate sample loop for each sample,** add **1 loopful** (1 µL) of each sample to appropriate wells. Mix sample in diluent thoroughly by twisting the handle of the loop between the thumb and forefinger. Be careful not to splash from well to well.
5)	Swirl samples gently to mix.
6)	Incubate for **10 minutes** at 21 - 25 °C.
7)	***NOTE:*** *If several samples are run simultaneously, only one set of controls is needed.*

BLOT AND WASH PROCEDURE

8)	Discard the fluid from the wells by inverting and blotting onto a paper towel. Wash wells once by vigorously filling the wells to **overflowing** with **diluted wash solution.**

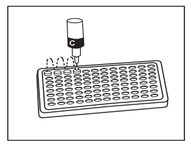


9)	Discard the fluid from the wells, and blot after wash.



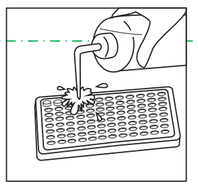
ADDITION OF CONJUGATE

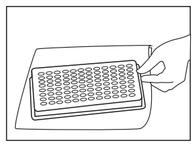
10)	Add **1 drop** of Conjugate (**Bottle C - Blue Cap**) into each well. Gently tap the holder for 10 - 15 seconds.
11)	Incubate for **10 minutes** at 21 - 25 °C.



BLOT AND WASH

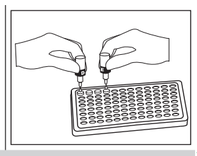
12)	Discard the fluid from the wells by inverting and blotting onto a paper towel. Wash by vigorously filling the wells to **overflowing** with diluted wash solution.
13)	Discard the fluid from the wells into an appropriate container and blot after each wash.
14)	**Repeat the washing procedure** (steps 12 and 13) **three (3) times.**
15)	Wash **two (2) more times** with **distilled or deionized water** to remove bubbles.
16)	Blot dry on a paper towel.





DEVELOP

18)	Place **1 drop** of Chromogen (**Bottle D - Green Cap**) into each well, followed by 1 drop of Substrate Buffer (**Bottle E – White Cap**). Mix by gently tapping the holder several times.
19)	Incubate **5 minutes.**
20)	After incubating, gently tap holder for 5 seconds and **read results immediately**. See Interpretation of Results section.



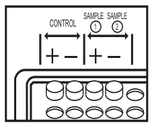
INTERPRETATION OF RESULTS

Controls:

- **POSITIVE** control should be distinctly blue.
- **NEGATIVE** control should be completely clear.

Samples:

- **POSITIVE** samples will be blue. A positive result is indicated by any degree of blue color in the sample well.
- **NEGATIVE** samples will be clear with no blue color development in the sample well.



A Negative result (antibody to feline coronavirus is absent) is indicated by no blue color development in the sample well. A Negative test result indicates that the animal is free of the virus or has not yet sero-converted after exposure. Cats may sero-convert in as little as 4 weeks or as long as twelve weeks after becoming infected with Feline Coronavirus. Care must be taken when interpreting positive test results in cats under six months of age as maternal FeCV antibodies may be present.

NOTES

- Use plasma or serum samples only (no whole blood).
- **Washing is the most important step. Microwells cannot be overwashed.** Underwashing will result in nonspecific color development in the negative control and sample wells.
- Read results at 5 minutes. If no color is seen at 5 minutes, the sample is negative.
- Always compare results to the negative control. The kit positive is engineered to be a moderate antibody level and is used to verify proper addition of reagents and good washing technique. It should not be used to differentiate positive from negative results.

SYMBOL DESCRIPTIONS

	Use by Date (expiration date)	EC REP	Authorized Representative in the European Community
LOT	Batch Code		Consult Instructions for Use
SN	Serial Number	IVD	*In Vitro* diagnostic medical device
	Temperature limitations (storage temperature range)		Manufacturer

zoetis

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VLN/PCN 190/5029.00
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EC REP

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