

Feline Immunodeficiency Virus antibody SRE

An SRE test to detect antibodies against feline immunodeficiency virus (FIV) antigen in serum and plasma samples

REF

F3202-AB01



32



Please use only the valid version of the package insert provided with the kit.

1. Table of Contents

1.	Table of Contents	. 2
2.	Introduction	3
3.	Intended use of the test kit	3
4.	Principle of the test kit	3
5.	Contents	4
6.	Handling and storage of specimens	4
7.	Preparations	4
8.	Test protocol qualitative	5
В	efore starting this test read "preparations"	5
9.	Illustrated Test protocol	7
10.	Precautions	8
11.	Interpretation of the test results	. 8
12.	Symbols used with EVL ASSAYS	9

Tel: +31 (0)348-412549

Web: www.evlonline.org

2. Introduction



FIV is a lentivirus discovered in 1986 by Dr. Niels Pederson at the University of California. The virus establishes a persistent infection from which cats usually recover. There follows an asymptomatic phase lasting several years in which the cat is clinically healthy (but infectious for others). However, immune function in the cat deteriorates during this opportunistic infections especially of the respiratory and gastrointestinal tracts lymphomas or neurological disorders will appear. The virus has a worldwide distribution with a prevalence of around 5% in healthy cats, the virus is mainly transmitted by bitting.

The EVL SRE test detects antibodies against p24. To this end recombinant p24 proteins are attached to the solid phase. After washing, the wells are incubated with the cat sera to be tested. After washing HRPO conjugate is added to detect the bound antibodies.

3. Intended use of the test kit

The EVL SRE test detects antibodies against p24. To this end purified recombinant p24 proteins are attached to the solid phase. After washing, the wells are incubated with the cat sera to be tested. After washing HRPO conjugate is added to detect the bound antibodies.

4. Principle of the test kit

The test is based on the reaction of FIV proteins with cat antibodies. To this end, p24 expression proteins have been coated to a 32-well microtiter strip plate.

The cat serum sample is added (diluted 1:100) to the wells of the coated plate.

After washing, the bound cat antibodies are detected by an anti-species conjugate.

Bound anti-species conjugate is made visible by adding substrate/chromagen mix.

The intensity of the colour reaction in the wells is directly correlated to the concentration of anti-FIV p24 antibodies in the serum sample.

Tel: +31 (0)348-412549

Web: www.evlonline.org

5. Contents

- 4x 8 Microtiter strips coated with recombinant p24 proteins
- 2x Buffer (white bottle + green cap)
- 1x Negative control (ready to use) (brown cap)
- 1x Positive control (ready to use) (yellow cap)
- 1x Conjugate (black bottle + red cap)
- 1x Substrate A (white bottle + white cap)
- 1x Substrate B (black bottle + blue cap)

Supplies needed (not included)

- Precision pipette 10-200μl (EVL)
- Pipette tips (EVL)
- ELISA plate reader (the results can be interpreted by eye, but for a more accurate and objective reading the use of the ELISA plate reader is strongly recommended)

6. Handling and storage of specimens

- The kit should be stored at 4°C.
- An open packet should be used within 28 days.
- Samples may be used fresh or may be kept frozen below -20°C before use.
- Positive and negative controls may be stored after reconstitution in aliquots at -20°C and used until the expiry date.
- Avoid repeated freezing and thawing as this increases non-specific reactivity.

7. Preparations

- Before using the reagents needed, take them out of the kit and place them on the table for ±15 min. at room temperature (±21°C) without exposing them to direct sunlight or (other) heat sources.
- Buffer, controls, standards and conjugates need to be shaken gently before use, in order to dissolve/mix any components that may have precipitated. Gently tap the vials onto the table, so any fluid still retained in the cap falls back into the solutions.
- If fluids need to be mixed into the test well, gently shake by tapping the wells with the fingers or re-suspend with the last pipette tip used for that particular well. Avoid contamination through spattering and prevent any fluid to enter inside the pipette itself.
- Place the reagents back at 4-8°C immediately after use.

Tel: +31 (0)348-412549
Web: www.evlonline.org
@: info@evlonline.eu

8. Test protocol qualitative

L

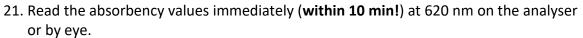
Before starting this test read "preparations"

- 1. Before starting this test read "preparations".
- 2. Open the packet of strips and take out the amount of wells needed from the test strip, 1 for each sample and 2 extra wells for the controls. Cover the remaining strips with a part of the provided seal and store them at 4°C and use them within 10 days.
- 3. Use the Precision pipette 10-200µl and use a clean pipette tip **before** pipetting the buffer, controls, samples, conjugate and substrate.
- 4. Before testing make sure all reagents are at room temperature.
- 5. Wash the test strips with running tap water:
 - o Fill all wells to the rim.
 - Empty the wells.
 - o Repeat 5 times.
 - Turn the wells upside down and empty the wells by slapping the strips onto a tissue paper. Take care that none of the wells dry out before the next reagent is dispensed.
- 6. Add 200µl of buffer to all the wells.
- 7. Add 10µl of the negative control to the first well.
- 8. Add 10µl of the positive control to the second well.
- 9. Add 10µl of sample (serum/plasma) to the remaining wells.
- 10. Mix the reagents gently (see "preparations").
- 11. Incubate for 40 minutes at room temperature (±21°C).
- 12. Wash the test strips with running tap water:
 - o Fill all wells to the rim.
 - Empty the wells.
 - o Repeat 5 times.
 - Turn the wells upside down and empty the wells by slapping the strips onto a tissue paper. Take care that none of the wells dry out before the next reagent is dispensed.
- 13. Add 100µl of conjugate to each well.
- 14. Incubate for 40 minutes at room temperature (±21°C).
- 15. Turn on the analyser (when available)
- 16. Wash the test strips with running tap water:
 - Fill all wells to the rim.
 - o Empty the wells.
 - o Repeat 5 times.
 - Turn the wells upside down and empty the wells by slapping the strips onto a tissue paper. Take care that none of the wells dry out before the next reagent is dispensed.

Tel: +31 (0)348-412549

Web: www.evlonline.org

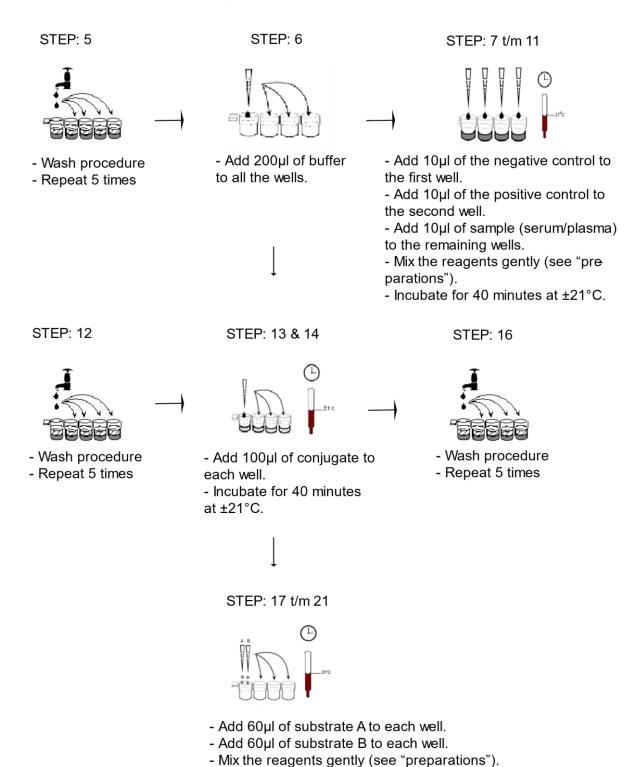
- 17. Add 60µl of substrate A to each well.
- 18. Add 60µl of substrate B to each well.
- 19. Mix the reagents gently (see "preparations").
- 20. Incubate for 15 minutes in the dark (e.g. cover the wells with a sheet of paper).



Note: in case of using stop solution read the absorbency at 450 nm on the analyser.



9. Illustrated Test protocol



Read the absorbency values immediately (within 10 min!) at 620 nm on the analyser or by eye Note: in case of using stop solution read the absorbency at 450 nm on the analyser.

- Incubate for 15 minutes in the dark at ±21°C.

10. Precautions



- Handle all biological material as through capable of transmitting infectious diseases.
- Do not pipette by mouth.
- Do not eat, drink, smoke or prepare foods, or apply cosmetics within the designated working area.
- TMB substrate (buffer B) is toxic by inhalation, through contact with skin or when swallowed; observe care when handling substrate.
- Do not use components past the expiry date and do not mix components from different serial lots.
- Optimal, results will be obtained by strict adherence to this protocol. Careful
 pipetting and washing throughout this procedure are necessary to maintain precision
 and accuracy.
- Each well is ultimately used as an optimal cuvette. Therefore, do not touch the under-surface of the microtiter plate and protect it from damage and dirt.

11. Interpretation of the test results

The analyser will give the results as positive, weakly positive or negative, but always double-check the outcome by observing the intensity of colour development.

Positive

 A sample is scored positive if the sample colour is dark blue, at least as blue as the positive control.

Weakly positive

 A sample is scored weakly positive if the sample colour is blue, with an intensity between that of the negative and positive control.

Negative

 A sample is scored negative if the sample colour is equally blue or less blue than the negative control.

Tel: +31 (0)348-412549

Web: www.evlonline.org

@: info@evlonline.eu

<u>Note:</u> diseased animal that is positive in this test (and is showing signs suggestive of FIV) is considered positive and must be suspected of shedding FIV)

12. Symbols used with EVL ASSAYS

0

Cum	hal
SVM	DOL







RUO REF

LOT







Distributed by

Content

Volume/No.

Description

Consult instructions for use

European Conformity

In vitro diagnostic device

For research use only

Catalogue number

Lot/ No. / Batch code

Contains sufficient for <n> tests

Storage Temperature

Expiration Date

Legal Manufacturer

Distributor

Content

Volume / No.

The entire risk as to the performance of these products is assumed by the purchaser. EVL shall not be liable for indirect, special or consequential damages of any kind resulting from use of the products. In case of problems or questions contact EVL.

Tel: +31 (0)348-412549

Web: www.evlonline.org