

Vcheck

FHV Ab



FELINE HERPES VIRUS

For veterinary use only

INTENDED USE

The Vcheck FHV Ab is an *in vitro* diagnostic test kit for the semi-quantitative detection of IgG to herpes virus in feline serum or plasma. The Vcheck FHV Ab is designed to be used only by veterinarians.

PRINCIPLE

The Vcheck FHV Ab Test Kit is a chromatographic immunoassay for the semi-quantitative detection of IgG to herpes virus in feline serum or plasma. Test line and control line in the result window are not visible before applying any samples. The control line is a reference line which indicates the test is performing properly. The control line has to appear every time when the test has performed. If the target antibodies are present in the sample, a purple test line will appear in the result window. The highly selective antigens are used as both capture and detector in the assay. These antigens are capable of detecting IgG antibody to feline herpes virus in a sample with high accuracy. The Vcheck Analyzer reads the presence of IgG to herpes virus in feline serum or plasma.

MATERIALS PROVIDED

| Reagent | 10 Tests/Kit |
|-----------------------------|--------------|
| ① Vcheck FHV Ab Test device | 10 |
| ② Assay diluent tube | 10 |
| ③ Anticoagulant tube | 10 |
| ④ Pipette tip | 20 |
| ⑤ Instructions for use | 1 |

MATERIALS REQUIRED, BUT NOT PROVIDED

1. BIONOTE Vcheck Analyzer
2. 5 μ l pipette
3. 100 μ l pipette

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 expiry date that is marked on the package label.

PRECAUTIONS

1. The test kit is for feline use only. Do not use for 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 sample using pipette vertically.
5. Do not touch the membrane in the result window of test device.
6. Do not use the test kit beyond the stated expiry date marked on the package 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; the components in this kit have been quality control tested as a standard batch unit.
9. All samples should be handled as being potentially infectious. Wear protective gloves while handling samples. Wash hands thoroughly afterwards.
10. Decontaminate and dispose of all samples, reaction kits and potentially contaminated materials safely in accordance with national and local regulations.

COLLECTION AND PREPARATION OF SAMPLE

1. Feline serum or plasma should be used with this test.

[Serum] Collect the whole blood into the collection tube (NOT containing anticoagulants such as heparin, EDTA and sodium citrate), allow to settle for 30 minutes for blood coagulation and then centrifuge to obtain serum supernatant.

[Plasma] Collect the whole blood into the collection tube (containing anticoagulant) such as heparin, EDTA and sodium citrate) and then centrifuge to obtain plasma.

2. If serum or plasma samples are not tested immediately, they should be refrigerated at 2~8°C. For longer storage, serum or plasma can be frozen (-20°C or colder). Frozen samples should be brought to room temperature (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, lipaemic, icteric or bacterially contaminated samples should be avoided. Erroneous results may occur.

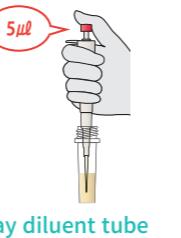
TEST PROCEDURE

Allow all kit components and samples to reach room temperature (15~30°C) for at least 30 minutes prior to testing.

Collect the samples

Serum or Plasma

1. Collect 5 μ l of sample using a 5 μ l pipette.
2. Add the sample into the assay diluent tube and mix well.



Using a V200 Analyzer

"Standard Test" mode

1. Turn on V200 Analyzer and select "Standard Test" on the analyzer's screen.



2. Remove the test device from the foil pouch. Once the 'Insert Device' is displayed on the screen, insert the test device into the V200 Analyzer.



3. Use a 100 μ l pipette to mix the sample with diluent by pipetting for 5~6 times and add 100 μ l of mixed sample into the sample hole, and press [START] to initiate testing.

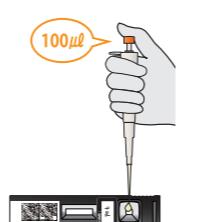


4. Read the result on the display after 10 minutes.
5. The V200 analyzer will automatically display the test result on the screen.



"Read Only" mode

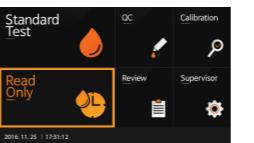
1. Remove the test device from the foil pouch and place it on a flat and dry surface.
2. Use a 100 μ l pipette to mix the sample with diluent by pipetting for 5~6 times and add 100 μ l of mixed sample into the sample hole.



3. Leave the test device for 10 minutes. Note that the test device should not be left more than 13 minutes.



4. Turn on V200 Analyzer and select "Read Only" on the analyzer's screen.



5. Insert the test device into the V200 Analyzer.



6. The analyzer will automatically display the test result on the screen.

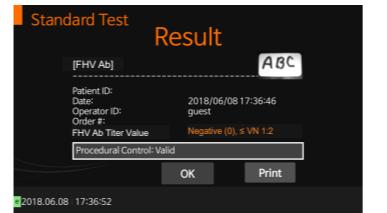
7. Remove the test device.

INTERPRETATION OF THE RESULT

[V200]

Negative

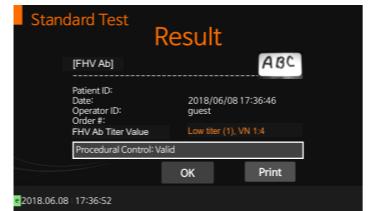
A negative result indicates the absence of IgG to feline herpes virus.



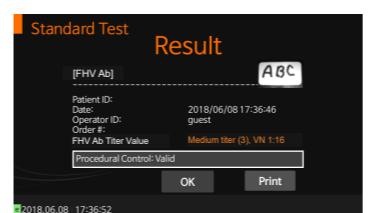
Negative(0)
(Below 1:2 as VN titer)

Positive

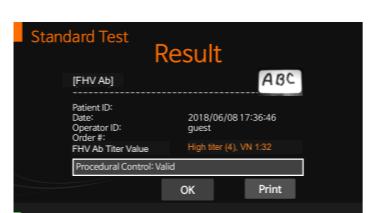
A positive result indicates the presence of IgG to feline herpes virus.



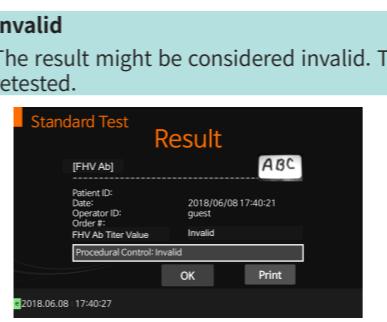
Low titer 1~2
(1:4 ~ 1:8 as VN titer)
Antibody titer is low against FHV.



Medium titer 3~3.5
(1:16~1:24 as VN titer)
Antibody titer is medium against FHV. This is indicative of a good immune status.



High titer 4~6
(Above 1:32 as VN titer)
Antibody titer is high against FHV. This is indicative of a good immune status.



Invalid
The result might be considered invalid. The sample should be retested.

LIMITATIONS OF THE TEST

1. Although the Vcheck FHV Ab Test kit is very accurate for detecting IgG to feline herpes virus, a low incidence of false results can occur. Other clinical and/or laboratory tests might be required if questionable results are obtained. As with all diagnostic tests, a definitive clinical diagnosis should not be based on the result of a single test, but should be diagnosed by the veterinarian after all clinical and laboratory findings have been evaluated.
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.

SCREEN MESSAGE AND TROUBLE SHOOTING

[V200]

| Error message | Error description |
|----------------------------|--|
| Contaminated Device | The test device is damaged or inserted improperly. Solution: Discard the test device and retest with a new test device and a new specimen. |
| Insufficient Sample | An insufficient amount of blood has been applied. Solution: Retest with a new test device with enough specimen, ensuring that blood is placed in to the narrow channel in the top edge of the test device. |
| Expired Device | The test devices are expired. Solution: Retest with a new test device that is not expired. |
| Temperature Error | The environmental temperature is above or below the operating range of the analyzer. Solution: Move to an area in the acceptable temperature range for the analyzer and perform the test. Do not heat or cool the analyzer artificially. |
| Printer Connection Fail | The communication between analyzer and barcode or printer has failed. Solution: Reconnect the analyzer and external device. If the error continues after turning ON/OFF the analyzer, please contact BioNote, Inc. |
| Barcode Error | The measured total hemoglobin is out of the range of 7 to 23g/dL. Solution: This error occurs when a specimen has a total hemoglobin in the abnormal range. If the error continues after turning ON/OFF the analyzer, please contact BioNote, Inc. |
| Extremely Total hemoglobin | The test is invalid. Solution: Retest with a new test device and a new patient specimen. If the error continues after turning ON/OFF the analyzer, please contact BioNote, Inc. |
| Result: Invalid | The calibration is overdue. Solution: If the error continues after turning ON/OFF the analyzer, please contact BioNote, Inc. |
| Calibration Overdue | Loading a test device that is not supported by the analyzer. Solution: Check whether the test device is manufactured by BioNote, Inc. |
| Not Supported Device | Internal error has occurred. Solution: If the error continues after turning ON/OFF the analyzer, please contact BioNote, Inc. |
| EEE | Manufactured by BioNote, Inc. |

BIONOTE

Manufactured by
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Vcheck

FHV Ab



FELINE HERPES VIRUS

동물용 의료기기

제품명

제조/판매업체: 동원화생제약(주)

형명

Vcheck FHV Ab

제품의 구성품 및 포장 단위

| 구성품 | 5 Tests/Kit | 10 Tests/Kit | 20 Tests/Kit | 50 Tests/Kit | 100 Tests/Kit |
|----------|-------------|--------------|--------------|--------------|---------------|
| 검사용 디바이스 | 5 | 10 | 20 | 50 | 100 |
| 검체희석액 | 5 | 10 | 20 | 50 | 100 |
| 항응고제 | 5 | 10 | 20 | 50 | 100 |
| 피펫 티 | 10 | 20 | 40 | 100 | 200 |
| 사용 설명서 | 1 | 1 | 1 | 1 | 1 |

사용 목적

Vcheck FHV Ab는 고양이 혈청 또는 혈장에서 Feline Herpes virus에 대한 항체 (IgG)를 면역 측정법으로 검사하는 동물용 체외진단분석기용 시약으로 동물병원 및 병성감정기관에서만 사용 가능합니다. (일반인 사용 불가)

사용 방법

[검체준비 및 저장방법]

- 1) 고양이의 혈청 및 혈장을 검체로 사용하며, 검체 준비 방법은 다음과 같습니다.
 - 혈청
 - 멀균된 주사기로 채혈한 혈액을 항응고제가 들어 있지 않은 튜브에 수집합니다.
 - 상온(15~30°C)에 약 30분간 방지해 응고가 일어나도록 한 후 원심분리에 의해 상청의 혈청을 분리시킵니다.
 - 혈장
 - 멀균된 주사기로 채혈한 혈액을 항응고제(헤파린, 구연산염 또는 EDTA)가 들어있는 튜브에 수집한 후, 원심분리에 의해 혈장을 분리시킵니다.
- 2) 분리된 혈청 또는 혈장은 2~8°C에 보관 시 2주간 사용 가능하며, 장기 보관이 필요한 경우 <20°C 이하에서 냉동 보관합니다.
 - * 2~8°C에서 보관된 검체 및 냉동 보관된 검체는 반드시 상온(15~30°C)에 최소 30분 정도 노출 시킨 후 사용합니다.
- 3) 완전히 분리되지 않아 검체 내에 침전물이 남는 경우, 검사 결과에 영향을 줄 수 있으므로, 검사에 사용하지 않도록 합니다.
- 4) 용혈된/지방질의/황달/세균 감염된 검체는 검사결과에 영향을 줄 수 있으므로 검체로 사용하지 않도록 합니다.

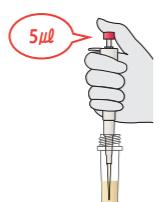
[검사 전 준비사항]

- 1) 검사용 디바이스는 온도 및 습기에 민감하므로 호일 파우치에 포장된 상태로 실온에 30분 적응시킨 후 시험시작 직전에 호일 파우치에서 꺼냅니다.
- 2) 검사용 디바이스와 헤석액, 피펫 티를 준비합니다.
- 3) 검사용 디바이스의 검사창은 손으로 만지지 않습니다.
- 4) 검사용 디바이스가 포함되어 있는 호일 파우치가 손상되었을 경우 사용하지 않습니다.
- 5) 키트의 구성품은 다른 로트의 구성품과 혼용하여 사용하지 않습니다.

[검사과정]

모든 키트 구성품과 검체는 시험 전에 반드시 상온(15~30°C)에 최소 30분 정도 노출시킨 후 사용합니다.

검체 준비



- 1) 5 μl 피펫을 이용하여 검체 5 μl를 취합니다.
- 2) 검체를 검체희석액에 넣고 피펫으로 잘 혼합합니다.

BIONOTE 브이체크 분석기 적용

- 1) BIONOTE 브이체크 분석기는 [Standard Test] 모드와 [Read Only]모드 두 가지의 각기 다른 검사과정을 통해 결과 값을 측정할 수 있습니다.

"Standard Test" mode



- 1) BIONOTE 브이체크 분석기의 전원을 켜고 "스탠다드 테스트"를 선택합니다.

2) 호일 파우치를 개봉하여 검사용 디바이스를 꺼내고, 기기에 삽입하여 기기가 디바이스의 바코드를 먼저 읽을 수 있도록 합니다.



3) 100 μl 피펫으로 5~6회 피펫팅하여 섞어준 다음, 샘플혼합액 100 μl를 취해 디바이스의 검체 점적홀에 점적합니다.



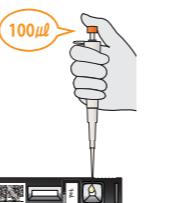
4) 기기 표시창의 '시작'을 눌러 검사를 시작합니다.
5) 10분 후, 기기 표시창에 표시된 결과를 확인합니다.
6) 측정이 완료되면, 사용했던 검사용 디바이스를 제거합니다.

"Read Only" mode

* 두 건 이상의 검사를 동시에 진행할 때, 사용을 권장합니다.



1) 호일 파우치를 개봉하여 검사용 디바이스를 꺼낸 후, 편평하고 간조한 바닥에 놓아둡니다.
2) 100 μl 피펫으로 5~6회 피펫팅하여 섞어준 다음, 샘플혼합액 100 μl를 취해 디바이스의 검체 점적홀에 점적합니다.

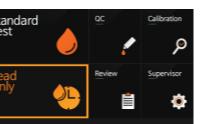


3) 검체 점적 후 전개가 될 때까지 10분을 기다립니다.



* 13분이 넘어가지 않도록 주의합니다.

4) BIONOTE 브이체크 분석기의 전원을 켜고 분석기 화면의 "Read Only"를 누른 후, 디바이스를 삽입합니다.



5) BIONOTE 브이체크 분석기 화면에 표시된 검사 결과를 확인합니다.
6) 측정이 완료되면, 사용했던 검사용 디바이스를 기기에서 제거합니다.



* 검체량 및 반응 시간을 다르게 할 경우 시험 결과에 영향을 줄 수 있으므로 정해진 양(5 μl)과 시간(10분)을 지켜 시험하도록 합니다.

결과판정

음성 : 기기 표시창에 "Negative 0, ≤VN 1:2"으로 결과가 또는 경우

[V100]



12-10 AM10:31

F H V A b

Titer Value

: N(0), VN 1: 2

양성 : 기기 표시창에 항체가에 따라 아래와 같이 titer 정도가 결과에 또는 경우

[V100]



12-10 AM10:31

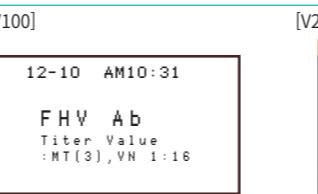
F H V A b

Titer Value

: LT(1), VN 1: 4

Low Titer 1~2 (VN titer 1:4~1:8) : 항체가가 낮을 경우

[V100]



12-10 AM10:31

F H V A b

Titer Value

: MT(3), VN 1: 16

[V200]

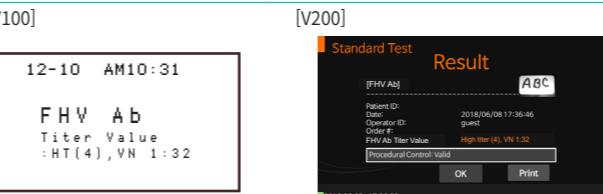
12-10 AM10:31

F H V A b

Titer Value

: HT(4), VN 1: 32

[V200]



12-10 AM10:31

F H V A b

Titer Value

: Invalid

[V100]

12-10 AM10:31

F H V A b

Titer Value

: ABC

[V200]

12-10 AM10:31

F H V A b

Titer Value

: ABC

[V200]

12-10 AM10:31

F H V A b

Titer Value

: ABC

[V200]

12-10 AM10:31

F H V A b

Titer Value

: ABC

[V200]

12-10 AM10:31

F H V A b

Titer Value

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F H V A b

Titer Value

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[V200]

12-10 AM10:31

F H V A b

Titer Value

: ABC

[V200]

12-10 AM10:31

F H V A b

Titer Value

: ABC

[V200]

