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## Product Information (30.10.07)

**Name of Kit:** **ImmunoComb<sup>®</sup> Feline VacciCheck IgG  
Antibody Test Kit**

**Catalog No:** 50FVV101/50FVV110

**No of Tests:** Standard Size: 12 samples X 3 antigens = 36 Tests

Lab Size: 120 samples X 3 antigens = 360 Tests

**Intended Use:** The ImmunoComb<sup>®</sup> Feline VacciCheck Test Kit is intended to evaluate the IgG antibody response to vaccination or infection by Feline Panleukopenia (FPLV), Feline Herpes Virus (Rhinothracheitis) (FHV) and Feline Calici Virus (FCV). A high antibody level is associated with immunity to infection (in well cats) and is helpful for diagnosis of clinical cases.

**Diagnostic Method:** The ImmunoComb<sup>®</sup> test is based on solid phase "dot"-ELISA technology. Antigens are applied to test 'spots' on the solid phase, which is a comb-shaped plastic card. (The Comb has 12 teeth-sufficient for 12 test samples.)

The samples to be tested are mixed with diluent in the first row of wells of a multi-chamber developing plate. The test spots on the Comb are then incubated with the sample in the developing plate. Specific IgG antibodies from the samples, if present, bind to the antigens at the test spots.

The Comb is then transferred to a well, where unbound antibodies are washed from the antigens spots. In the next step, the Comb is allowed to react with an anti-cat IgG Alkaline Phosphates conjugate, which will bind to antigen-antibody complexes at the test spots. After 2 more washes, the Comb is moved to the last well, where a color result develops via an enzymatic reaction. The intensity of the color result of test spots corresponds directly to the antibody level in the test sample.

**Immunology:** Serology can provide the veterinarian with information about the cat's immune status regarding previous vaccination or infection by particular disease agents.

**Interpretation:** The level of antibodies (i.e., antibody titer) is determined according to the intensity of the test color result. Thus, no or a trace of gray color indicates an absence of antibodies (negative). A faint color result that is

lighter than the positive reference spot is considered low positive. On the ImmunoComb® Feline VacciCheck Test Kit a reference spot is provided on each comb tooth (top spot), that is calibrated to develop a distinct grey color. This is the same color that is generated by a significant<sup>1</sup> positive result. Please refer to Table 1.

**Table 1. Interpretation of Results**

<b>ImmunoComb® Score</b>	<b>Color Result</b>	<b>Interpretation</b>
<b>0</b>	White or trace of gray	<b>Negative.</b> No detectable antibodies to FPLV, FHV or FCV.
<b>1 – 2</b>	Faint gray	<b>Low Positive.</b> Not considered to be a protective level of antibodies to FPLV, FHV or FCV.
<b>3 – 4</b>	Distinct gray	<b>Significant Positive.</b> Consistent with protective level of antibodies to FPLV, FHV or FCV.. Revaccination is not needed.
<b>5 – 6</b>	Dark gray	<b>High Positive.</b> High level of humoral immunity to FPLV, FHV or FCV. Revaccination is not needed.

**Main Application:** Provides information about humoral immune response to previous vaccination (or infection) to FPLV, FHV or FCV.

**Panleukopenia (FPLV):**

**Herpes (FHV):**

**Calici (FCV):**

**Specificity:** 85%

**Specificity:** 76%

**Specificity:** 75%

**Sensitivity:** 98%

**Sensitivity:** 84%

**Sensitivity:** 67%

#### **Other Diagnostic Methods:**

- Hematology/ Blood chemistry – Routine hematologic tests (such as CBC) are helpful when abnormal results are present (e.g., lymphopenia), however, these tests are not specific for individual disease.
- Antigen Detection – Immunofluorescence, Fecal antigen, PCR.
- Other serologic methods – IFA, HI, VN.

<sup>1</sup> ‘Cut-off’ positive values (S3): FPLV 1:40 HI, FHV 1:16 VN, FCV 1:32 VN.

<sup>2</sup> Biogal, Galed Labs.

## References:

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