

VACCICheck[®]

by **Biogal** Galed Labs.

A reliable and scientifically
proven in-house antibody
titer testing solution





VacciCheck proudly holds prestigious certifications from leading authorities worldwide, highlighting its exceptional quality and reliability.

- ▶ USDA
- ▶ Canadian Food Inspection Agency
- ▶ Japanese Ministry of Agriculture, Food and Fisheries
- ▶ ANVISA (National Health Surveillance Agency, Brazil)
- ▶ ISO 9001:2015, ISO 13485:2016

DIAGNOSTIC METHOD

Serology Dot-ELISA detects specific antibodies in a blood sample, indicating immunity to exposure or vaccination.

BENEFITS

- ▶ Easy to use
- ▶ Fast results
- ▶ Accurate
- ▶ Semi-quantitative
- ▶ Proven reliability supported by scientific evidence
- ▶ Cost-effective
- ▶ High sensitivity and specificity

APPLICATIONS

- ▶ Verifies immune response after the initial vaccination cycle in young pets
- ▶ Assists veterinarians in determining if senior, immunocompromised, or chronically ill companion animals need a booster vaccine
- ▶ Tests immunity levels in pets with an unknown vaccination history
- ▶ Supports outbreak management in shelters and breeding facilities

PERFORMANCE DATA

Canine Vaccicheck

| Virus | Sample Size | Sensitivity | Specificity | Gold Standard Method |
|-----------------------------|-------------|-------------|-------------|----------------------------------|
| Canine Adenovirus CAV (ICH) | 166 | 94% | 93% | Virus Neutralization (VN) |
| Canine Parvovirus CPV | 186 | 88% | 100% | Hemagglutination Inhibition (HI) |
| Canine Distemper CDV | 199 | 100% | 92% | Virus Neutralization (VN) |

Clinical study conducted in 2015 at Professor Schultz's lab, Department of Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison.

Feline Vaccicheck

| Virus | Sample Size | Sensitivity | Specificity | Gold Standard Method |
|--------------------------|-------------|-------------|-------------|----------------------------------|
| Feline Calici Virus FCV | 344 | 90% | 91% | Virus Neutralization (VN) |
| Feline Herpesvirus FHV | 344 | 93% | 96% | Virus Neutralization (VN) |
| Panleukopenia Virus FPLV | 344 | 89% | 98% | Hemagglutination Inhibition (HI) |

Clinical Study conducted in 2013 at The Medicine and Biomedical Sciences lab in the College of Veterinary, Colorado State University. The Department of Small Animal Clinical Sciences lab in the College of Veterinary Medicine, University of Florida. Cornell University Animal Health Diagnostic Center.

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info



VacciCheck – Quick Guide

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STEP 1

Bring all components to room temperature 20°C - 25°C

STEP 3

Insert the Comb into the well A with the sample, incubate and transfer to the remaining wells (B-F) at timed intervals according to the step by step instructions

STEP 2

Deposit serum (5 µl), or whole blood (10 µl) into a well in row A

STEP 4

Dry and read the results

Step-by-Step Procedure

| Reagents | Row | Incubation time [min] |
|-----------|------------------|-----------------------|
| Sample | A | 5 |
| Wash | B | 2 |
| Conjugate | C | 5 |
| Wash | D | 2 |
| Wash | E | 2 |
| Chromogen | F | 5 |
| Wash | Back to E | 2 |

Upon completion, a purple-grey color appears on Positive Reference spots and positive sample spots, indicating antibody levels based on intensity.

Reading and interpreting the IgG antibody results

| Score | Result | Immunity status | Recommendation |
|--------------|----------------------|---------------------------|---|
| S0-S1 | Negative | Poor Immunity | Vaccination Required |
| S2 | Weak Positive | Adequate Immunity | The dog will not benefit from repeated vaccination |
| S3-S4 | Positive | Good Immunity | |
| S5-S6 | High Positive | Excellent Immunity | |

READING THE RESULTS

Via CombScale

Match the positive reference spot color to the Comb scale. Slide C3+ to this color and compare each dot individually, noting the values

Via CombCam:

“Electronic Eye” reads VacciCheck semi-quantitatively



JAVMA



A point-of-care dot blot ELISA assay for detection of protective antibody against canine adenovirus, canine parvovirus, and canine distemper virus is diagnostically accurate

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doi.org/10.2460/javma.22.05.0224

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"The overall accuracy of 93.43% to 95.91% for this test provides confidence in its reliable use in the routine screening of previously vaccinated dogs over 20 weeks of age to determine the benefit of administering a 'booster' core vaccine."

Table 1—The sensitivity, specificity, and accuracy analysis of the index test for canine adenovirus (CAV), canine parvovirus (CPV), and canine distemper virus (CDV).

| Virus | Sensitivity (95% CI) | Specificity (95% CI) | Accuracy (95% CI) |
|------------------------------------|------------------------|------------------------|------------------------|
| CAV n = 183 Pet dogs only | 96.03% (91.55%–98.53%) | 90.62% (74.98%–98.02%) | 95.08% (90.87%–97.73%) |
| CPV n = 563 Pet and spf dogs | 96.75% (94.39%–98.31%) | 94.33% (90.08%–97.14%) | 95.91% (93.93%–97.39%) |
| CDV n = 563 Pet and spf dogs | 96.12% (93.69%–97.81%) | 87.50% (81.69%–92.00%) | 93.43% (91.05%–95.33%) |

spf = Specific pathogen-free.

ANTIBODY TESTING VS VACCINATION
APPLICATIONS IN CLINICAL PRACTICE



RICHARD B. FORD.
PROFESSOR OF MEDICINE DIPLOMATE
ACVIM AND ACVPM (HON)



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| Canine | |
|-----------------|--|
| Adenovirus | In-clinic titer test results correlate well with gold standard testing (VN). |
| Distemper virus | In-clinic titer test results correlate well with gold standard testing (VN). |
| Parvovirus | In-clinic titer test results correlate well with gold standard testing (HI). |

"Understanding when serological testing is indicated, and knowing what actions to take based on positive or negative results, is fundamental. With strong correlation between positive antibody test results and protection, serological testing becomes a crucial and reliable tool for managing individual patients."

Article

Prevalence of Serum Antibody Titers against Core Vaccine Antigens in Italian Dogs

Paola Dall'Ara ^{1,*}, Stefania Lauzi ¹, Jari Zambarbieri ¹, Francesco Servida ², Laura Barbieri ³, Roberto Rosenthal ⁴, Lauretta Turin ¹, Elena Scarparo ¹ and Joel Filipe ¹

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"Antibody titer tests such as VacciCheck may be very useful in monitoring canine immunity specific for core vaccines."

"VacciCheck is the only one recommended by WSAVA and AAHA and the only one officially approved by regulatory authorities in USA, Canada, Japan, Brazil, and other countries."

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PAPER

Long-lived immunity to canine core vaccine antigens in UK dogs as assessed by an in-practice test kit

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"Serological testing, such as that undertaken with in-practice kits, can readily identify the rare individual dogs who may not have responded to a specific vaccine antigen."

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Article

Effect of Aging on the Immune Response to Core Vaccines in Senior and Geriatric Dogs

Paola Dall'Ara ^{1,*}, Stefania Lauzi ¹, Lauretta Turin ¹, Giulia Castaldelli ¹, Francesco Servida ² and Joel Filipe ^{1,*}

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"Antibody titration (e.g., with VacciCheck) may be a very useful tool in monitoring canine immunity and could become a standard of care in such a delicate period of the dogs' life."

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Designed for the efficient development of
VacciCheck test kit

KEY BENEFITS

- ▶ Maximize productivity
- ▶ Increased efficiency
- ▶ Does not require trained personnel
- ▶ Simple to use
- ▶ Carried out in the comfort of your clinic

FEATURES

- ▶ LCD touch screen
- ▶ Multi languages
- ▶ Built in plate warmer
- ▶ Trusted biological accuracy
- ▶ Protective cover
- ▶ Magnetic comb and paper strip holder
- ▶ Digital instructions for use
- ▶ Factory calibrated



CombCam

Makes the reading of the results simple,
faster, and more accurate

Youtube
Tutorial
CombCam



- ▶ Hand sized, user friendly reader.
- ▶ Reads individually one tooth at a time.
- ▶ Result displayed after 3 seconds.
- ▶ Test results can be copied to a PC or a laptop for electronic documentation.



Step 01

Use appropriate RFID
card with CombCam



Step 02

Insert ImmunoComb
or VacciCheck Tooth



Step 03

Read Result via
CombCam Cube or
PC Software

Road map to ensure your pet's protection



Manufactured by



Biogal Galed Labs.

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