

Serological comparison of RapidSTATUS™ TiterTest™
and VacciCheck Canine vs gold standard VN/HI
assays

2020 June 10

Materials

- 1). RapidSTATUS™ TiterTest™
- 2). VacciCheck Canine
- 3). Samples:
 - a. Nine serum samples from post 3 months Recombitek C4-vaccinated dogs.
 - b. Twelve serum samples from post 2-3 years Vanguard 7-vaccinated dogs.

Methods

The serum sample CAV-2 and CDV antibody titer was determined by gold standard test serum neutralization (SN) assay, and CPV antibody titer was determined by hemagglutination inhibition (HI) assay. The protective titer for CAV is SN titer $\geq 1:16$, for CDV SN titer $\geq 1:32$ and for CPV HI titer $\geq 1:80$. The gold standard tests are performed in Cornell University.

All samples were tested by both Biotech RapidSTATUS™ TiterTest (CAV-2/CPV/CDV) and VacciCheck, and the results were compared to the gold standard test.

RapidSTATUS™ TiterTest and VacciCheck on CAV-2 antibody detection compared to gold standard CAV VN test

Table 1

post 3 months vaccination		CAV VN	
		positive	negative
RapidSTATUS TiterTest CAV	positive	8	1
	negative	0	0
VacciCheck CAV	positive	8	1
	negative	0	0

Table 2

post 2-3 years vaccination		CAV VN	
		positive	negative
RapidSTATUS TiterTest CAV	positive	11	0
	negative	0	1
VacciCheck CAV	positive	11	0
	negative	0	1

RapidSTATUS™ TiterTest and VacciCheck on CDV antibody detection compared to gold standard CDV VN test

Table 3

post 3 months vaccination		CDV VN	
		positive	negative
RapidSTATUS TiterTest CDV	positive	3	0
	negative	0	6
VacciCheck CDV	positive	3	0
	negative	0	6

Table 4

post 2-3 years vaccination		CDV VN	
		positive	negative
RapidSTATUS TiterTest CDV	positive	11	0
	negative	0	1
VacciCheck CDV	positive	11	0
	negative	0	1

RapidSTATUS™ TiterTest and VacciCheck on CPV antibody detection compared to gold standard CPV HI test

Table 5

post 3 months vaccination		CPV HI	
		positive	negative
RapidSTATUS TiterTest CPV	positive	8	0
	negative	0	1
VacciCheck CPV	positive	8	0
	negative	0	1

Table 6

post 2-3 years vaccination		CPV HI	
		positive	negative
RapidSTATUS TiterTest CPV	positive	8	1
	negative	3	0
VacciCheck CPV	positive	5	1
	negative	6	0

