



## Diagnostic Line – ELISA Kit for Dogs



## FilarCHECK Ag ELISA

Direct Sandwich ELISA test  
for the detection of *Dirofilaria immitis* antigen



**FAST** A simple, rapid and practical method for the diagnosis of filariasis

**PRACTICAL** Ready-to-use test  
No preparation required  
Results in about 25 minutes

**ACCURATE RESULTS** Visual or spectrophotometric reading at 450 nm

**SENSITIVITY 97.6%**  
(Confidence interval 95%: 85.6%-99.9%)

**SPECIFICITY 100%**  
(Confidence interval 95%: 93.1%-100%)

## TEST PRINCIPLE

The test is performed as a double antibody sandwich enzymatic immunoassay.

A specific monoclonal antibody (Mab) against the antigen of *Dirofilaria immitis* is fixed on the wells of the plate. When a sample containing the *Dirofilaria* antigen (positive sample) is added, the antigen will bind to the

Mab adsorbed. By adding a second Mab anti-*Dirofilaria immitis*, conjugated with horseradish peroxidase, this will bind to Ab-Ag complex. All non-fixed material is removed by washing. A specific substrate is then added to the wells which causes a color change reaction when the antigen is present.

## TEST VALIDATION

Using a panel of serum with characteristics of *Dirofilaria*, a comparative study between FilarCHECK Ag ELISA (Agrolabo) and DiroCHECK (Zoetis) was performed.

107 serum samples were selected from naturally infected or healthy subjects and analyzed in parallel in order to compare the two tests.

The sensitivity, specificity and the agreement values of FilarCHECK Ag ELISA versus DiroCHECK were calculated.

Compared to DiroCHECK as reference test, the new FilarCHECK Ag ELISA agrees at 99.1% (Cohen's K: 0.980), sensitivity is 97.6% and specificity 100%.

| FilarCHECK<br>Ag ELISA<br>(Agrolabo) | DiroCHECK (Zoetis) – Reference test |                   |                   |       |
|--------------------------------------|-------------------------------------|-------------------|-------------------|-------|
|                                      |                                     | POS               | NEG               | Total |
|                                      | POS                                 | 40 <sup>(a)</sup> | 0 <sup>(c)</sup>  | 40    |
|                                      | NEG                                 | 1 <sup>(b)</sup>  | 66 <sup>(d)</sup> | 67    |
|                                      | Total                               | 41                | 66                | 107   |

### Comparison test results.

a) true positives; b) false positives; c) false negatives; d) true negatives.

## FilarCHECK Ag ELISA the most modern response to new requirements



**Code** 27236396  
**Format** 96 breakable wells  
**Sample** Canine serum or plasma  
**Shelf life** 12 months  
**Storage** +2-8°C