

FIV Comparison Testing: IFA / ELISA / Western Blot

100 feline serum samples tested. Samples 1-47 are samples submitted to a reference lab for FIV testing, samples 48-100 are from an animal blood bank. The cats are tested quarterly and all 53 of these cats have been in a protected environment for at least 3-years. The ELISA test is produced by IDEXX Labs and the western blot test was done by National Vet Lab in New Jersey.

If we use the western blot test as the "gold standard", the concordance is as follows: IFA and western blot agree in 95 out of 100 tests. The 5 discrepant samples were; 4 IFA positives where the western blot was negative, and 1 IFA negative where the western blot was positive. ELISA and western blot agree 86 out of 100 tests. The 14 discrepant samples were; 12 ELISA positives where the western blot was negative, and 2 ELISA negatives where the western blot was positive.

IFA concordance with western blot = 95%

ELISA concordance with western blot = 86%

(See full listing of results in Table 1 below)

WB = Western Blot (National Vet Lab)

ELISA = IDEXX Pet Check (Lot SNFJ659)

IFA = Hansen Dx (Lot 556)

Table 1

Cat #	IFA	ELISA	WB
1	+	+	+
2	+	+	+
3	+	+	+
4	+	-	-
5	+	-	-
6	+	+	+
7	+	+	+
8	+	+	-
9	+	+	+
10	+	+	+
11	+	+	+
12	+	+	+
13	+	+	+
14	+	+	+
15	+	-	+
16	+	+	+
17	+	+	+
18	+	+	+
19	+	+	+
20	+	+	+
21	+	+	+
22	+	+	+
23	+	-	-
24	+	+	+
25	+	+	+
26	+	+	+
27	+	+	+
28	+	+	+
29	+	+	+
30	+	+	+
31	+	+	+
32	+	+	+
33	+	+	+
34	+	+	+
35	+	+	+
36	+	+	+
37	+	+	+

Cat #	IFA	ELISA	WB
38	+	+	+
39	+	+	+
40	+	+	+
41	+	+	+
42	+	+	+
43	+	+	+
44	+	+	+
45	+	+	+
46	+	+	+
47	+	+	+
48	-	-	-
49	-	-	-
50	-	+	-
51	-	-	+
52	-	+	-
53	-	-	-
54	-	-	-
55	-	-	-
56	-	-	-
57	-	-	-
58	-	-	-
59	-	+	-
60	-	+	-
61	-	+	-
62	-	+	-
63	-	-	-
64	-	+	-
65	-	+	-
66	-	+	-
67	-	+	-
68	-	-	-
69	-	-	-
70	-	-	-
71	-	-	-
72	-	-	-
73	-	-	-
74	-	-	-

Cat #	IFA	ELISA	WB
75	-	-	-
76	-	-	-
77	-	-	-
78	-	-	-
79	-	-	-
80	-	-	-
81	-	-	-
82	-	-	-
83	-	-	-
84	-	-	-
85	-	-	-
86	-	-	-
87	-	-	-
88	-	-	-
89	-	-	-
90	-	-	-
91	-	-	-
92	-	+	-
93	-	-	-
94	-	-	-
95	-	-	-
96	-	-	-
97	-	-	-
98	-	-	-
99	-	-	-
100	-	-	-