

Supplementary material

Serological screening in cats and dogs for SARS-CoV-2 infection

(10)(2e) (10)(2e) (10)(2e) (10)(2e) (10)(2e) (10)(2e)

(10)(2e) (10)(2e) (10)(2e) (10)(2e) (10)(2e)

(10)(2e)

Supplementary material

Supplementary Table 1. Percentage amino acid identity of canine and feline coronavirus spike and nucleocapsid proteins with SARS-CoV-2 proteins. Amino acid sequences were aligned by cluster W and pairwise identities were calculated with the needle method in the EMBOSS pairwise alignment algorithms program (http://www.ebi.ac.uk/Tools/psa/emboss_needle).

Virus type	Virus	Nucleocapsid	S	S1	RBD
Betacoronavirus	CRCoV	32.4	28.5	20	15.6
Alphacoronavirus	FCoV type I	29	24	16.8	7.7
	FCoV type II	27.8	25.3	17.7	8.9
	CCoV	28	25.1	16.9	8.9

Supplementary Table 2. Serological disposition of samples tested in different serological assays

Animal	Cohorts	SARS-CoV-2 S1 ELISA	SARS-CoV-2 RBD ELISA	Neutralization assay	No. samples	Conclusion
cat	COVID-19 exposed (total n=44)	+	+	+	10	Seropositive
		-	-	-	34	Seronegative
	2020 (total n=500)	+	+	-	4	Suspect
		-	+	-	6	Seronegative
		-	-	- / NA	488	Seronegative
dog	COVID-19 exposed (total n=1)	+	+	+	1	Seropositive
		+	+	+	1	Seropositive
	2020 (total n=500)	+	-	-	8	Seronegative
		-	-	- / NA	491	Seronegative

Abbreviations: +, positive result; -, negative result; - / NA, negative results or not applicable