

Supplementary Material Table S1. Primers, probe, and expected amplicons size for the viral detection, typing, and sequencing.

Virus	Target	Primer	Primer sequence (5'-3')	Amplicon size (bp)	Reference
CAV	Early region 3 (E3) gene and flanking regions	¹ HA1	CGCGCTGAACACTACTACCTTGTC	508 (CAV-1)	[31]
		¹ HA2	CCTAGAGCACTTCGTGCCGCTT	1030 (CAV-2)	
	Penton gene	² CAV2-penFF	AATGGAGTTTTTCGTCGTCTCCT	1491 (CAV-1)	[39]
		² CAV2-penRR	TTAGTCGGTGATATTAAGATGGC		
	Hexon gene	² CAV-Hexon-For1	GAAGTTTGCCGACCCTGTC	2813	[28]
		² CAV-Hexon-Rev1	ACTATGGCTCGCAGCTCTTC		
		⁴ CAV-Hexon-For2	CTGATGCCTWTAATAACACACCTGA		
		⁴ CAV-Hexon-Rev2	GACCTGAATATGGAACGAGCA		
	Fiber gene	² CAV-Fiber-For1	ATGTGGTCTCTCCRACAGC	1787 (CAV-1)	[28]
		² CAV-Fiber-Rev1	ACTTTTCTGAAGCGGYAG	1748 (CAV-2)	
⁴ CAV-Fiber-For2		ACCATATAACTCTAAGTCTGGGAG	TATGGGAAAGTCCAGGTCCA		
⁴ CAV-Fiber-Rev3					
CPV-2	VP2 gene	¹ VP2-850-Forward	GAGCATTGGGCTTACCA	700	[32]
		¹ VP2-1550-Reverse	GCAAGATGCATCAGGATC		
		^{2,3} P1	ATGAGTGATGGAGCAGTTC	1745	[36]
		^{2,3} VPR	TTTCTAGGGTGCTAGTTGAG		
		⁴ 41-FOX2	GCCCTTGTTAGACGC		
⁴ 353:	CCTGGATTAACCAAACCTCC				
CDV	P gene	¹ DMV 1	ATGTTTATGATCACAGCGGT	429	[33]
¹ DMV 2	ATTGGGTTGCACCACTTGTC				
CCoV	M gene	¹ CCV1	TCCAGATATGTAATGTTCCGG	409	[34]
		¹ CCV2	TCTGTTGAGTAATCACCAGCT		
	M gene (CCoV-I)	² CCoV1a	GTGCTTCTCTGAAGGTACA	239	[37]
		² CCoV2	TCTGTTGAGTAATCACCAGCT		
	M gene (CCoV-II)	² Can1F	TAACATTGCTCTCAGGGAATTTG	202	[37]
		² CCoV2	TCTGTTGAGTAATCACCAGCT		
	S gene (CCoV-I)	² EL1F	CAAGTTGACCGTCTTACTGTTAG	346	[37]
		² EL1R	TCATATACGTACCATTATAGCTGAAGA		
S gene (CCoV-IIa)	² S5	TGCATTTGTGTCTCAGACTT	694	[37]	
	² S6	CCAAGGCCATTTTACATAAG			
S gene (CCoV-IIb)	² CEPoI-1	TCTACAATTATGGCTCTATCAC	370	[38]	
	² TGSP-2	TAATCACCTAAMACCACATCTG			
RoV	NSP3 region	¹ NVP3-FDeg	ACCATCTWCACRTRACCCTC	87	[35]
¹ NVP3-R1	GGTCACATAACGCCCTATA				
⁵ NVP3-Probe	ATGAGCACAATAGTAAAAGCTAACA CTGTCAA				

Primers used for ¹detection, ²typing, and ³sequencing of CAV (canine adenovirus), CPV-2 (canine parvovirus type 2), CDV (canine distemper virus), CCoV (canine coronavirus), and RoV (rotavirus); ⁴additional internal primers used for sequencing. ⁵probe labeled with reporting dye (6-FAM) and with quenching dye (MGB).