

**Table 1 Pathogens strains used for the LAMP method**

Pathogen strain	Source
<i>Mycoplasma gallisepticum</i>	Laboratory stock
<i>Mycoplasma synoviae</i>	Laboratory stock
<i>Escherichia coli</i>	American Type Culture Collection 25922
<i>Campylobacter coli</i>	China Center of Industrial Culture Collection 23925
<i>Salmonella</i> Typhimurium	American Type Culture Collection 14028
<i>Pseudomonas aeruginosa</i>	American Type Culture Collection 27853
<i>Staphylococcus aureus</i>	National Center for Medical Culture Collections 26003
Newcastle disease virus	Laboratory stock
Avian influenza virus	Laboratory stock
Infectious bronchitis virus	Laboratory stock
Infectious laryngotracheitis Virus	Laboratory stock

**Table 2 Sequences of primers used for LAMP and PCR**

Primer	Sequences (5'-3')
F3	TGGAGGTCAACCCAATGACA
B3	GCTCCACCTTACGGATTTGC
LF	ATCTCACGACACGAGCTGA
FIP	CGCTCGTTGCGGGACTTAACCGGTGGTGCAT GGTTGTGC
BIP	GTTGGAGGAAGGTGGGGATGACGCCATTGT AGCACGTTTGC
F	TGGAGGTCAACCCAATGACA
R	GCTCCACCTTACGGATTTGC
Probe	AACCCTTATCGTTAGTTACTTT

**Table 3 Reproducibility of the LAMP method**

Plasmid concentration (copies/ $\mu$ L)	Coefficient of variation for intra-assay	Coefficient of variation for inter-assay
$1.07 \times 10^7$	1.59%	3.58%
$1.07 \times 10^6$	3.07%	3.56%
$1.07 \times 10^5$	2.63%	2.32%
$1.07 \times 10^4$	0.25%	2.72%
$1.07 \times 10^3$	1.13%	0.52%
$1.07 \times 10^2$	1.14%	4.35%

**Table 4 Comparison of test results of clinical samples between qPCR method and colorimetric LAMP method**

Sample	qPCR (CT value)	This study	Sample	qPCR (CT value)	This study
1	/	-	33	/	-
2	/	-	34	/	-
3	/	-	35	/	-
4	/	-	36	/	-
5	/	-	37	/	-
6	/	-	38	/	-
7	/	-	39	/	-
8	/	-	40	/	-
9	/	-	41	/	-
10	/	-	42	/	-
11	31.85	+	43	/	-
12	/	-	44	/	-
13	/	-	45	31.77	+
14	/	-	46	28.48	+
15	33.35	+	47	34.19	+
16	/	+	48	34.27	+
17	/	-	49	/	-
18	/	-	50	/	-
19	/	-	51	/	-
20	/	-	52	/	-
21	/	-	53	/	-
22	/	-	54	/	-

23	/	-	55	/	-
24	/	-	56	/	-
25	/	-	57	/	-
26	/	-	58	/	-
27	/	-	59	/	-
28	/	-	60	/	-
29	/	-	61	/	-
30	/	-	62	/	-
31	/	-	63	22.29	+
32	/	-	64	/	-

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