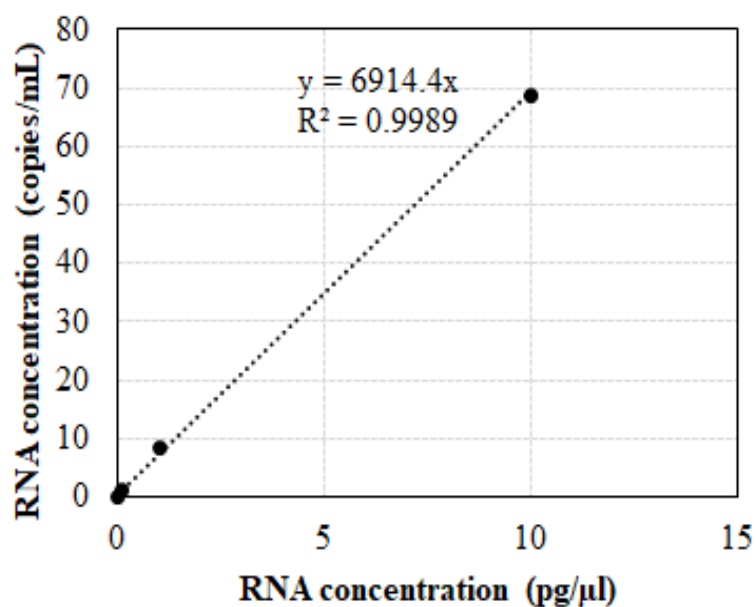
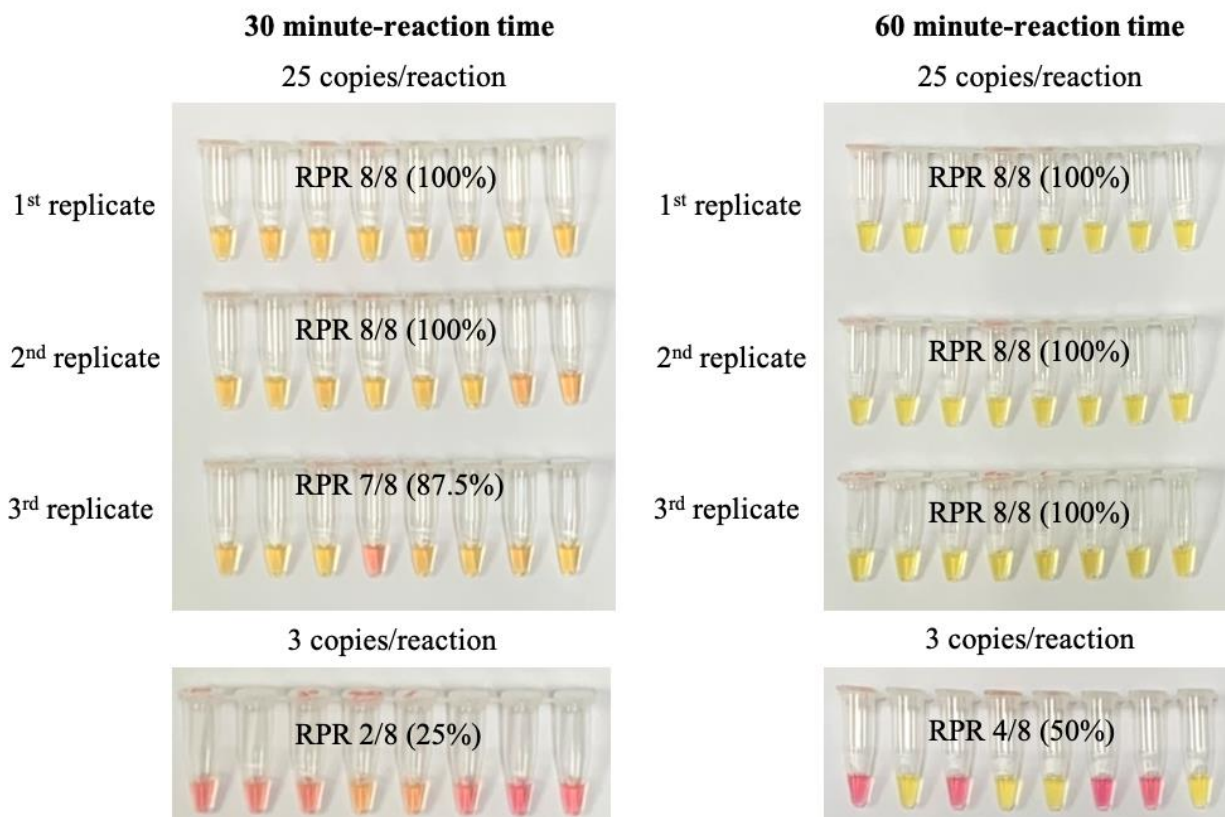


Supplementary material




**Figure S1** Calibration curve constructed at various RNA concentration of SARS-CoV-2 (0.01, 0.1, 1, 10 pg/μl) determined by ddPCR



**Figure S2** Eight replicates test for each reaction time (30 and 60 minutes) and the hit rate was calculated based on the number of positive reactions

**Table S1** Sensitivity determination of colorimetric RT-LAMP for SARS-CoV-2 detection under the presence of negative specimen matrix

RNA concentration (copies/reaction)		NTC	3	25	63	125	188	250	2,500
RT-LAMP	Color								
	Positive/ Total	0/3	1/3	3/3	3/3	3/3	3/3	3/3	3/3
	Hit rate (%)	0	33	100	100	100	100	100	100
qRT-PCR Ct (Mean±SD)	ORF1ab	N.D.	38.69 ±1.81	33.06 ±0.35	31.71 ±0.25	30.71 ±0.17	30.40± 0.31	29.80± 0.33	25.94± 0.18
	N	N.D.	34.24 ±0.71	30.81 ±1.26	29.68 ±1.09	28.8± 1.09	28.29± 0.93	27.96± 0.82	23.95± 0.96

NTC = Non-template Control and N.D. = Not detected