

SUPPLEMENTARY TABLES

Supplementary Table 1. Assessment of Limit of detection for mixed pathogens of respiratory tract virus in multiplex RT-PCR.

Mixed pathogen (RNA copies per PCR)	SARS-CoV-2 RNA copies per PCR (No. of replicates detected at each dilution/total no. of replicates at indicated no. of copies per PCR (percentage))						
	300	75	24	18.8	9.4	3.8	1.9
Influenza A H1 (300)	20/20 (100)	20/20 (100)	20/20 (100)	20/20 (100)	19/20 (95)	11/20 (55)	0/20 (0)
Influenza A H1 (24)	20/20 (100)	20/20 (100)	20/20 (100)	20/20 (100)	19/20 (95)	12/20 (60)	0/20 (0)
Influenza A H3 (300)	20/20 (100)	20/20 (100)	20/20 (100)	20/20 (100)	19/20 (95)	12/20 (60)	0/20 (0)
Influenza A H3 (24)	20/20 (100)	20/20 (100)	20/20 (100)	20/20 (100)	19/20 (95)	10/20 (50)	0/20 (0)
Influenza A H1N1(300)	20/20 (100)	20/20 (100)	20/20 (100)	20/20 (100)	19/20 (95)	12/20 (60)	0/20 (0)
Influenza A H1N1(24)	20/20 (100)	20/20 (100)	20/20 (100)	20/20 (100)	19/20 (95)	11/20 (55)	0/20 (0)
Influenza B (300)	20/20 (100)	20/20 (100)	20/20 (100)	20/20 (100)	19/20 (95)	10/20 (50)	0/20 (0)
Influenza B (24)	20/20 (100)	20/20 (100)	20/20 (100)	20/20 (100)	19/20 (95)	12/20 (60)	0/20 (0)
RSV subtype A (300)	20/20 (100)	20/20 (100)	20/20 (100)	20/20 (100)	19/20 (95)	11/20 (55)	0/20 (0)
RSV subtype A (24)	20/20 (100)	20/20 (100)	20/20 (100)	20/20 (100)	19/20 (95)	12/20 (60)	0/20 (0)
RSV subtype B (300)	20/20 (100)	20/20 (100)	20/20 (100)	20/20 (100)	19/20 (95)	11/20 (55)	0/20 (0)
RSV subtype B (24)	20/20 (100)	20/20 (100)	20/20 (100)	20/20 (100)	19/20 (95)	12/20 (60)	0/20 (0)

Supplementary Table 2. Primers and probe used in this study.

Primer name	Description	Primer sequence (5'→3')	References
2019-nCov_N2-F	2019-nCoV-forward sequence	TTACAAACATTGGCCGCAAA	[25]
2019-nCov_N2-R	2019-nCoV reverse sequence	GCGCGACATTCCGAAGAA	[25]
2019-nCov_N2-P	2019-nCoV probe	FAM-ACAATTTGCCCCAGCGCTTCAG-BHQ-1	[25]
InfA-F	Influenza A virus forward sequence	CCMAGGTCGAAACGTAYGTTCTCTCTATC	[14]
InfA-R	Influenza A virus reverse sequence	TGACAGRATYGGTCTTGCTTTAGCCAYTCCA	[14]
InfA-P	Influenza A virus probe	VIC-ATYTCGGCTTTGAGGGGGCTG-BBQ	[14]
InfB-F	Influenza B virus forward sequence	GAGACACAATTGCCTACTTGCTT	[14]
InfB-R	Influenza B virus reverse sequence	TTCTTTCCCAACCAACCAAC	[14]
InfB-P	Influenza B virus probe	Cy5-AGAAGATGGAGAAGGCAAAGCAGAAGCTAGC-BBQ	[14]
RSV-N-F	Respiratory syncytial virus forward sequence	CTGTCATCCAGCAAATACAC	[14]
RSV-N-R	Respiratory syncytial virus reverse sequence	GCATATAACATACCTATTAAYCC	[14]
RSV-N-P	Respiratory syncytial virus probe	Texas red—ACAGGAGATARTATTGAYACTCCYAAT-BBQ	[14]
RP-F	RNase P forward sequence	AGA TTT GGA CCT GCG AGC G	[25]
RP-R	RNase P reverse sequence	GAG CGG CTG TCT CCA CAA GT	[25]
RP-P	RNase P probe	Cy5.5-TTC TGA CCT GAA GGC TCT GCG CG-BBQ	[25]