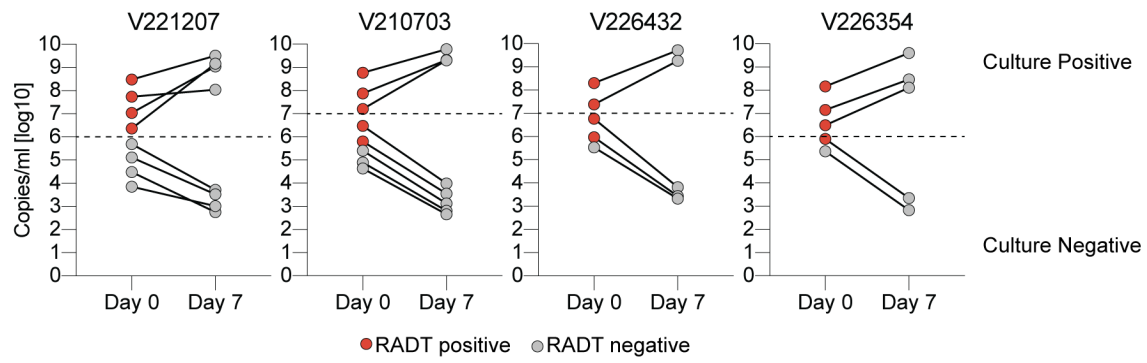


		<b>Total</b>	<b>PCR<sup>+</sup></b>	<b>PCR<sup>-</sup></b>	<b>p-value</b>
N		2,028	210 (10.36%)	1,818 (89.64%)	-
Median Age (IQR)		32.25 (26.15-43.12)	31.55 (24.40 - 46.47)	32.36 (26.31 - 42.86)	-
Sex	m	789 (38.91%)	89 (42.38%)	700 (38.50%)	0.2954 (0.1166)
	w	1,239 (61.09%)	121 (57.62%)	1,118 (61.50%)	
N		1,676	210	1,466	-
Symptomatic	yes	866 (51.67%)	130 (61.90%)	736 (50.20%)	0.0015 (0.0013)
	no	810 (48.33%)	80 (38.10%)	730 (49.80%)	
		<b>Total</b>	<b>RADT<sup>+</sup></b>	<b>RADT<sup>-</sup></b>	<b>p-value</b>
N		2,028	92 (4.54%)	1936 (95.46%)	-
Median Age (IQR)		32.25 (26.15-43.12)	31.71 (24.33-49.79)	32.28 (26.17-42.87)	-
Sex	m	789 (38.90%)	43 (46.74%)	746 (38.53%)	0.1257 (0.0945)
	w	1,239 (61.10%)	49 (53.26%)	1190 (61.47%)	
N		1676	92	1584	-
Symptomatic	yes	866 (51.67%)	73 (79.35%)	793 (50.06%)	<0.0001 (<0.0001)
	no	810 (48.33%)	19 (20.65%)	791 (49.94%)	
		<b>Total</b>	<b>culture<sup>+</sup></b>	<b>culture<sup>-</sup></b>	<b>p-value</b>
N		118	29 (24.58%)	89 (75.42%)	-
Median Age (IQR)		32.12 (25.61-46.47)	40.65 (30.01-52.15)	31.38 (25.52-44.84)	-
Sex	m	46 (38.98%)	15 (51.72%)	31 (34.83%)	0.1270 (0.1133)
	w	72 (61.02%)	14 (48.28%)	58 (65.17%)	
N		118	29	89	-
Symptomatic	yes	72 (61.02%)	20 (68.97%)	52 (58.43%)	0.3833 (0.8183)
	no	46 (38.98%)	9 (31.03%)	37 (41.57%)	

**Table S1. Additional cohort description.** Test results by age, sex and symptoms (weighted analyses for repeated measures in brackets; all p-values by Fisher's exact test).

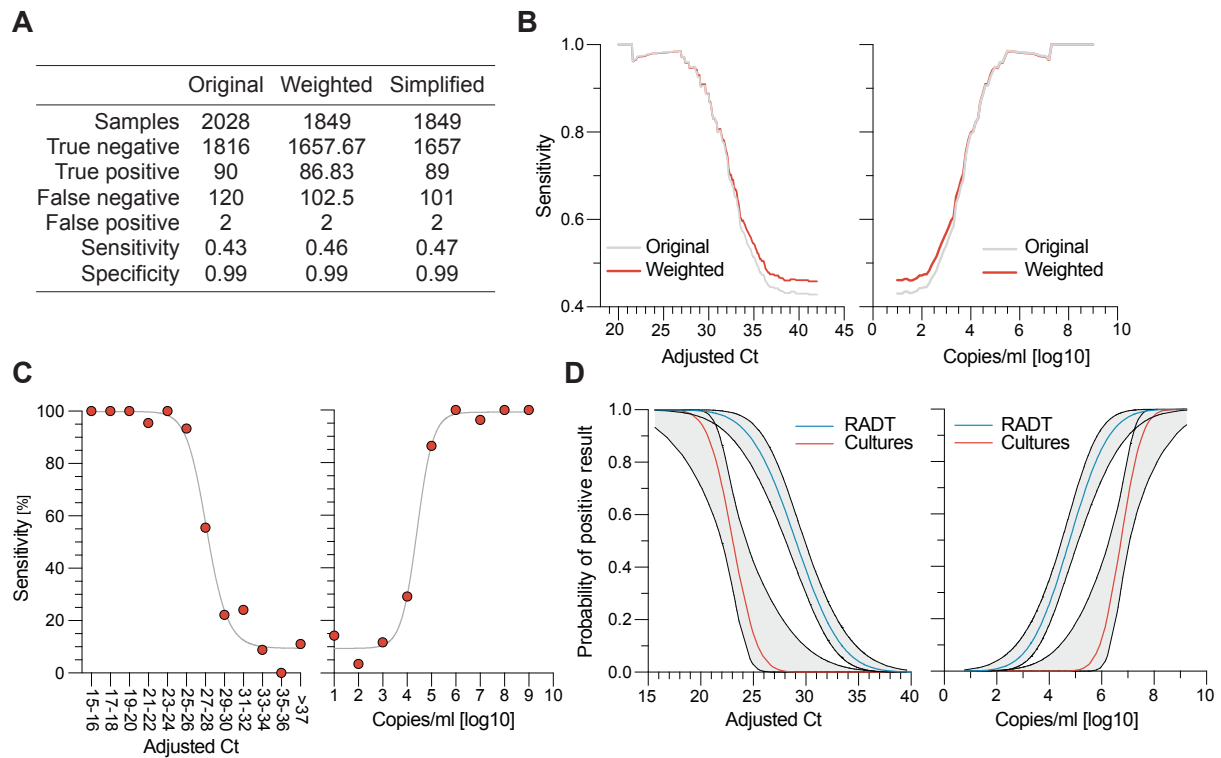
		<b>Total</b>	<b>RADT<sup>+</sup></b>	<b>RADT<sup>-</sup></b>	<b>p-value</b>
N		1676	92	1584	-
Symptomatic	yes	866	73	793	<0.0001
	no	810	19	791	(<0.0001)
N		846	63	783	-
Cough	yes	347 (41.02%)	37 (58.73%)	310 (39.59%)	0.0034 (0.0059)
	no	499 (58.98%)	26 (41.27%)	473 (60.41%)	
Fever	yes	101 (11.94%)	24 (38.10%)	77 (9.83%)	<0.0001 (<0.0001)
	no	745 (88.06)	39 (61.90%)	706 (90.17%)	
Rhinitis	yes	466 (55.08%)	41 (65.08%)	425 (54.28%)	0.1141 (0.1806)
	no	380 (44.92%)	22 (34.92%)	358 (45.72%)	
Loss of taste/smell	yes	83 (9.81%)	21 (33.33%)	62 (7.92%)	<0.0001 (<0.0001)
	no	763 (90.19%)	42 (66.67%)	721 (92.08%)	
Headache	yes	503 (59.46%)	49 (77.78%)	454 (57.98%)	0.0020 (0.0024)
	no	343 (40.54%)	14 (22.22%)	329 (42.02%)	
Sore throat	yes	512 (60.52%)	35 (55.56%)	477 (60.92%)	0.4232 (0.3407)
	no	334 (39.48%)	28 (44.44%)	306 (39.08%)	
Limb pain	yes	205 (24.23%)	28 (44.44%)	177 (22.61%)	0.0003 (0.0003)
	no	641 (75.77%)	35 (55.56%)	606 (77.39%)	
Respiratory problems	yes	48 (5.67%)	4 (6.35%)	44 (5.62%)	0.7757 (0.7736)
	no	798 (94.33%)	59 (93.65%)	739 (94.38%)	
Diarrhea	yes	97 (11.47%)	9 (14.29%)	88 (11.24%)	0.4167 (0.6733)
	no	749 (88.53%)	54 (85.71%)	695 (88.76%)	
N		860	70	790	-
Days since symptom onset	0-2 d	494 (57.44%)	45 (64.29%)	449 (56.84%)	0.2213 (0.2597)
	3-7 d	299 (34.77%)	23 (32.86%)	276 (34.94%)	
	8-14 d	67 (7.79%)	2 (2.86%)	65 (8.23%)	
prior test result (within 8 weeks before study)	yes	666 (32.84%)	17 (18.48%)	649 (33.52%)	0.0021 (0.0060)
	unknown	1362 (67.16%)	75 (81.52%)	1287 (66.48%)	

**Table S2. RADT results by symptoms and follow-up testing** (weighted analyses for repeated measures in brackets; all p-values by Fisher's exact test).



**Fig. S1. Virus cultivation of 1:5 dilutions.**

Samples of four different individuals with high viral loads were diluted and subsequently used for RADT testing and virus cultivation. Culture supernatant was tested in RT-qPCR on the day of inoculation and day 7 for detection of virus replication.



**Fig. S2. Modified data analyses to correct for repeated testing of single individuals.**

(A) Comparison of RADT performance data in either a weighted or simplified (only first swab result) fashion. (B) The cumulative sensitivity of the RADT is stratified by adjusted Ct values and RNA load in log copies/ml. (C) Sensitivity of RADT is stratified by adjusted Ct values and RNA load in log copies/ml for simplified analysis (only first swab result). (D) Probability of positive result for RADT and viral cultures in the context of adjusted Ct values and RNA load (Probit-Model, R-function GLMMadaptive). All weighted p-values remain  $p < 0.0001$ , Generalized Estimating Equations.