

Supplementary Material

Title: Detection of SARS-CoV-2 in Settings Including Point-of-Care: Performance of the Cobas SARS-CoV-2 NAT and utility with the Cobas Liat System

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Table S1. Sample exclusion criteria

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| <ul style="list-style-type: none">• Sample volumes insufficient for testing:<ul style="list-style-type: none">• For fresh non-archived samples, remaining volume after initial POC SARS-CoV-2 testing <2 mL• For frozen archived samples, post-thawing remnant volume <1.5 mL• Other sample types (e.g., saliva, oropharyngeal, nasal/nasopharyngeal wash, sputum, bronchoalveolar lavage)• Collection into other transport media types (e.g., Liquid Amies, saline)• Storage outside the predefined stability requirements |
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POC, point of care; SARS-CoV-2, severe acute respiratory syndrome coronavirus-2

Table S2. Self-reported symptoms in evaluable patients.

Symptoms	Result category (yes/no)	n (%)
Fever or chills	Yes	71 (42.5)
	No	96 (57.5)
Shortness of breath	Yes	48 (28.7)
	No	119 (71.3)
Difficulty breathing	Yes	55 (32.9)
	No	112 (67.1)
New loss of taste or smell	Yes	0 (0)
	No	167 (100.0)
Congestion or runny nose	Yes	14 (8.5)
	No	151 (91.5)
Diarrhea	Yes	23 (13.9)
	No	142 (86.1)
Cough	Yes	79 (47.3)
	No	88 (52.7)
Fatigue	Yes	45 (27.1)
	No	121 (72.9)
Headache	Yes	31 (18.6)
	No	136 (81.4)
Sore throat	Yes	27 (16.2)
	No	140 (83.8)
Nausea or vomiting	Yes	36 (21.6)
	No	131 (78.4)
Muscle or body aches	Yes	31 (18.6)
	No	136 (81.4)

Table S3. Vital signs of enrolled participants.

Symptoms	Parameter	Total
Heart rate, beats per minute	N	155
	Mean $\pm$ SD	92.1 $\pm$ 19.84
	Median	89.0
	Range	46.0–150.0
	Not available	162
Respiratory rate, breaths per minute	N	112
	Mean $\pm$ SD	18.0 $\pm$ 4.30
	Median	16.0
	Range	12.0–33.0
	Not available	205
Pulse oximetry (SpO₂), %	N	158
	Mean $\pm$ SD	97.2 $\pm$ 3.29
	Median	98.0
	Range	79.0–100.0
	Not available	159
Temperature, °C	N	148
	Mean $\pm$ SD	37.1 $\pm$ 0.94
	Median	37.0
	Range	34.7–39.9
	Not available	169

SD, standard deviation; SpO₂, oxygen saturation.

Table S4. Exploratory diagnostic performance comparison of POC SARS-CoV-2 diluted samples with POC SARS-CoV-2 source (non-diluted) samples.

	POC SARS-CoV-2 Test Result - Undiluted			
POC SARS-CoV-2 Test Result- Diluted	Detected	Undetected	Total	P value
Detected	34	2	36	0.157
Not Detected	6	125	131	
Total	40	127	167	
PPA (95% CI)	85.0% (70.9%, 92.9%)			
NPA (95% CI)	98.4% (94.4%, 99.6%)			
OPA (95% CI)	95.2% (90.8%, 97.6%)			

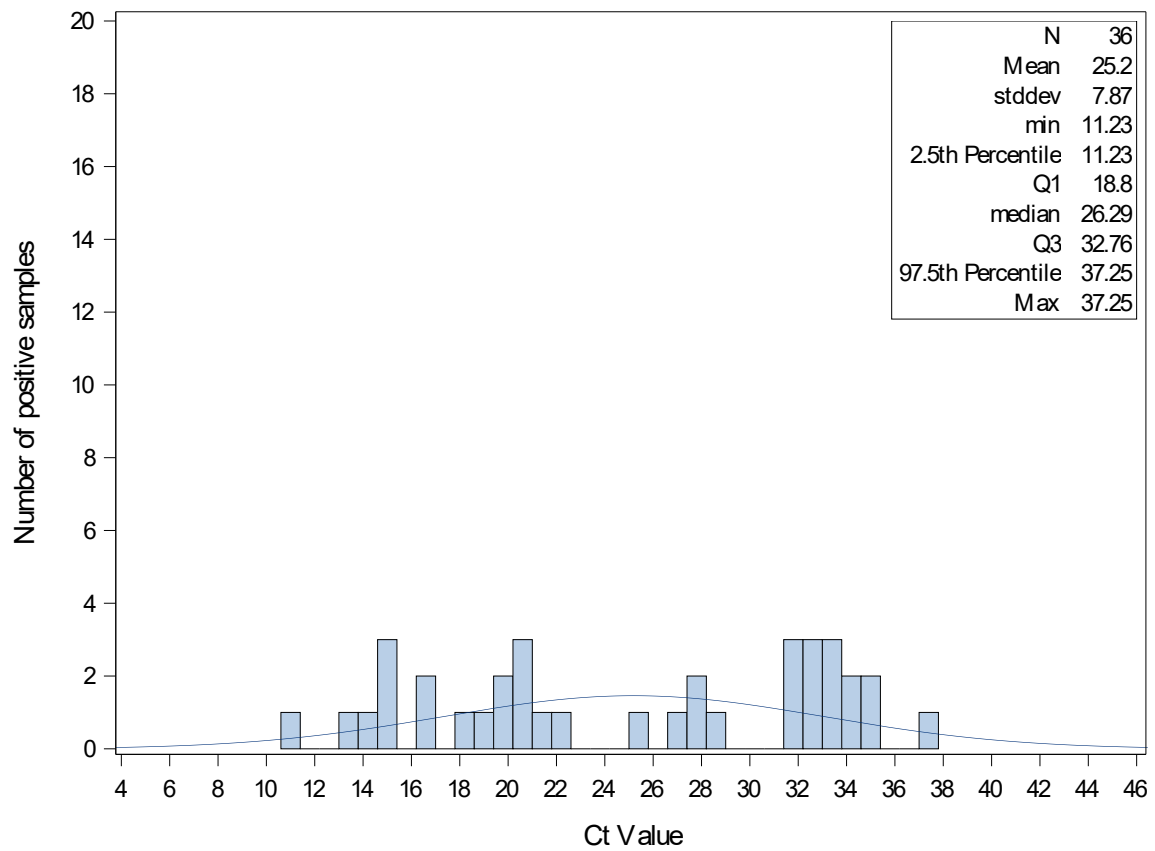
CI, confidence interval; NPA, negative percent agreement; OPA, overall percent agreement; POC, point of care; PPA, positive percent agreement; SARS-CoV-2, severe acute respiratory syndrome coronavirus-2.

Table S5. Ct values for POC SARS-CoV-2 and 68/8800 discordant samples.

Site	POC SARS-CoV-2		68/8800	
	Test result	Ct value	Test result	Ct value
<i>Main analysis</i>				
US	Detected	35.4	Not detected	
US	Detected	33.5	Not detected	
US	Detected	33.01	Not detected	
US	Detected	34.52	Not detected	
US	Not detected		Detected	36.12
US	Not detected		Detected	34.53
Germany	Detected	35.57	Not detected	
Germany	Detected	32.07	Not detected	
Germany	Detected	36.4	Not detected	
Germany	Detected	34.11	Not detected	
Germany	Detected	33.97	Not detected	
Germany	Detected	31.54	Not detected	
Germany	Detected	33.64	Not detected	
Germany	Detected	35.74	Not detected	
Germany	Detected	33.38	Not detected	
Germany	Detected	33.45	Not detected	
<i>Dilution analysis (German site only)</i>				
Germany	Detected	34.11	Not detected	
Germany	Detected	35.1	Not detected	
Germany	Detected	32.84	Not detected	
Germany	Detected	35.32	Not detected	
Germany	Detected	37.25	Not detected	
Germany	Detected	33.35	Not detected	

Ct, cycle threshold; POC, point of care; SARS-CoV-2, severe acute respiratory syndrome coronavirus-2.

Figure S1. Distribution of Ct values for SARS-CoV-2 positive results for diluted samples on POC SARS-CoV-2.



Ct, cycle threshold; max, maximum; min, minimum; POC, point of care; Q, quartile; SARS-CoV-2, severe acute respiratory syndrome coronavirus-2; std dev, standard deviation