Supplementary tables

Table 1. Samp	le panel used to validate t	he performance of	the ELISA/Liaison and the a	ntibody RDT			
assays for SARS-CoV-2							
Sensitivity							
Country	Sample source	Infection	No. samples	Post symptom			
			Liaison/ELISA (RDT*)	onset range			
Netherlands	RT-PCR confirmed SARS- CoV-2	Mild	15/15 (15)	1-24			
		Severe	78/78 (78)	1-43			
		Specificity					
Netherlands	Healthy blood donors	NA	20/20 (11)	NA			
Netherlands	Non-CoV respiratory infections*	Adeno virus	6/6 (1)	2-4weeks			
		HMPV	9/9 (3)	2-4weeks			
		Flu A	13/13 (4)	2-4weeks			
		Flu B	6/6 (4)	2-4weeks			
		RSV A	5/5 (4)	2-4weeks			
		RSV B	4/4 (4)	2-4weeks			
		CMV	5/5 (2)	2-4weeks			
		EBV	7/7 (3)	2-4weeks			
		M.pneumoniae	1/1 (1)	2-4weeks			
		Rhinovirus	9/9 (2)	2-4weeks			
		Bocavirus	2/2 (0)	2-4weeks			
		Parainfluenza 1/3	8/8 (0)	2-4weeks			
		Enterovirus	2/2 (0)	2-4weeks			
Netherlands	hCoV infections	HCoV 229E	19/19 (6)	2-4weeks			
		HCoV-NL63	17/17 (7)	2-4weeks			
		HCoV-OC43	39/39 (9)	2-4weeks			
Soudan/Qatar		MERS	8/8 (3)	2-4weeks			

* numbers were limited due to RDT kit availability

Table 2. A summary of the performance characteristics of the Wantai Ig and IgM ELISA, Euroimmun

16 IgG and IgA ELISA and DiaSorin Liason platform.

			Wantai Ig	Wantai IgM	Euroimmun IgG*	Euroimmun IgA*	Liaison
	Specificity	n/N Value (95% Cl)	149/150 0.9933 (0.9632 - 0.9997)	148/150 0.9867 (0.9527 - 0.9976)	160/161 0.9938 (0.9657 - 0.9997)	151/161 0.9379 (0.8895 - 0.9659)	68/69 0.9855 (0.9224 - 0.9993)
Overall	Sensitivity	n/N Value (95% Cl)	75/76 0.9868 (0.9292 - 0.9993)	68/76 0.8947 (0.8058 - 0.9457)	62/76 0.8158 (0.7142 - 0.8870)	74/76 0.9737 (0.9090 - 0.9953)	39/53 0.7358 (0.6042 - 0.8356)
	Positive Predictive Value	Value (95% Cl)	0.9868 (0.9292 - 0.9993)	0.9714 (0.9017 - 0.9949)	0.9841 (0.9154 - 0.9992)	0.881 (0.7946 - 0.9340)	0.975 (0.8712 - 0.9987)
	Negative Predictive Value	Value (95% Cl)	0.9933 (0.9632 - 0.9997)	0.9487 (0.9021 - 0.9738)	0.9195 (0.8695 - 0.9515)	0.9869 (0.9536 - 0.9977)	0.8293 (0.7336 - 0.8955)
	Likelihood Ratio		148	67.11	131.3	15.68	50.77
>14 dps	Sensitivity	n/N Value (95% Cl)	26/26 1 (0.8713 - 1.000)	19/26 0.7308 (0.5392 - 0.8630)	25/26 0.9615 (0.8111 - 0.9980)	26/26 1 (0.8713 - 1.000)	17/18 0.9444 (0.7424 - 0.9972)
	Positive Predictive Value	Value (95% Cl)	0.963 (0.8172 - 0.9981)	0.9048 (0.7109 - 0.9831)	0.9615 (0.8111 - 0.9980)	0.7222 (0.5601 - 0.8415)	0.9444 (0.7424 - 0.9972)
	Negative Predictive Value	Value (95% Cl)	1 (0.9749 - 1.000)	0.9548 (0.9097 - 0.9780)	0.9938 (0.9657 - 0.9997)	1 (0.9752 - 1.000)	0.9855 (0.9224 - 0.9993)
	Likelihood Ratio		150	54.81	154.8	16.1	65.17

	Cellex (n=93)		InTec (n=93)		Orient gene (n=90)	
	IgM	lgG	IgM	lgG	IgM	lgG
		Compar	ed to PRNT50 p	ositivity		
Sensitivity-overall	87.36%	84.44%	88.37%	95.00%	89.41%	91.57%
	(78.50% to	(75.28% to	(79.65% to	(87.69% to	(80.85% to	(83.39% to
	93.52%)	91.23%)	94.28%)	98.62%)	95.04%)	96.54%)
Sensitivity >14	96.15%	96.15%	88.37%	96.15%	80.65%	100.00%
DPO	(80.36% to	(80.36% to	(79.65% to	(80.36% to	(62.53% to	(86.28% to
(n=25)	99.90%)	99.90%)	94.28%)	99.90%)	92.55%)	100.00%)
	IgM and IgG		IgM and IgG		IgM and IgG	
	96.15%		96.15%		100.00%	
	(80.36% to 99.90%)		(80.36% to 99.90%)		(86.28% to 100.00%)	
Specificity -	80.95%	85.00%	73.91%	77.27%	100.00%	100.00%
overall*	(58.09% to	(62.11% to	(51.59% to	(54.63% to	(80.49% to	(80.49% to
	94.55%)	96.79%)	89.77%)	92.18%)	100.00%)	100.00%)

^{31 *} number of sera tested for specificity based on availability of test kit; n=44, 64 and 9 respective of

32 Cellex, inTec and Orient Gene