

## Expected results EQA panel SARS-CoV-2 and runcontrol

Table 1. Panel composition and Ct values in real-time RT-PCR with Fast-Virus Mastermix after extraction of 200 µl specimen in MagNApure 96 with Total nucleic acid kit small volume, elution in 50 µl and 5 µl extract added to the real-time RT-PCR.

Panel coding	Virus	Target specific Ct <sup>2</sup>	E-gene Ct	RdRP-gene Ct
EQA_CoV20-01	Influenza virus A(H3N2)	21.64	Neg	Neg
EQA_CoV20-02	SARS-CoV-2 RNA (d2) <sup>1</sup>	na	34.06	33.84 (Neg) <sup>3</sup>
EQA_CoV20-03	CoV-OC43	27.30	Neg	Neg
EQA_CoV20-04	SARS-CoV-1 RNA	na	29.73	Neg (30.56) <sup>4</sup>
EQA_CoV20-05	Rhinovirus A16	25.49	Neg	Neg
EQA_CoV20-06	CoV-229E	32.60	Neg	Neg
EQA_CoV20-07	No virus	Neg	Neg	Neg
EQA_CoV20-08	CoV-NL63	28.84	Neg	Neg
EQA_CoV20-09	Influenza virus B-Victoria	28.32	Neg	Neg
EQA_CoV20-10	SARS-CoV-2 RNA (d1) <sup>1</sup>	na	30.16	30.88 (31.71) <sup>3</sup>

<sup>1</sup> d1 and d2 indicate that d2 is a 1:10 dilution of d1.

<sup>2</sup> For influenza virus A(H3N2) the Ct value is for the matrix gene and for influenza virus B/Victoria the Ct value is for the hemagglutinin gene; na = not applicable.

<sup>3</sup> First Ct value is for the SARS-CoV-2 specific probe; Ct value between brackets is for the Sarbeco probe.

<sup>4</sup> SARS-CoV-1 will not be detected by the SARS-CoV-2 specific probe (first Ct value); Ct value between brackets is for the Sarbeco probe.

Table 2. Dilution series SARS-CoV-2 RNA runcontrol in real-time RT-PCR with Fast-Virus Mastermix and 5 µl per RT-PCR.

	E-gene qualitative	E-gene Ct	RdRP-gene qualitative	RdRP-gene Ct*
Onv	Positive	21.71	Positive	24.64
10-1	Positive	25.01	Positive	27.97
10-2	Positive	28.61	Positive	31.46
10-3	Positive	31.55	Positive	33.54
10-4	Positive	33.56	Positive	35.32
10-5	Positive	34.53	Negative	
10-6	Negative		Negative	
10-7	Negative		Negative	

\*SARS-CoV-2 specific probe and Sarbeco probe combined with the same label in one reaction.