

Protocol: LDT-betaCoV (Version 1)

Protocol Identification

Protocol Name	LDT-betaCoV	Version	1
Author	AC	Created On	2/4/2020 2:42:49 PM
Modified On	--	Exported On	2/4/2020 2:42:49 PM
Description	Beta CoV protocol	Type	Low - Viral (1.8)

Extraction & PCR Details

Sample Tube Cap Type	Hologic Pierceable Cap	Extraction Volume	360 µL
Sample Aspiration Height	Low	Reagent Kit	FCR-S/FER-S
Template	RNA or DNA	Elution Buffer Volume	50 µL
Template Volume	5 µL	Enzyme Cartridge Type	RNA/DNA

Targets Setup

Selected	Channel	Example Dye	Excitation/Detection Wavelength (nm)	Analyte Name	Additional Information (Optional)
Yes	1	FAM	460/517	betaCoV	--
No	2	HEX	532/563	--	--
No	3	ROX	586/625	--	--
No	4	Quasar 670	625/660	--	--
Yes	5	Quasar 705	690/720	IC	--

Protocol: LDT-betaCoV (Version 1)

Thermocycler Setup

Profile: Custom

Projected Thermocycler Runtime (hh:mm:ss): 00:55:00

Stage Name 1: Holding Stage
Number Of Cycles 1

Step Name Step 1
Temperature (°C) 50
Duration (mm:ss) 08:05
Optics On No

Step Name Step 2
Temperature (°C) 95
Duration (mm:ss) 02:00
Optics On No

Stage Name 2: Cycling Stage
Number Of Cycles 44

Step Name Step 1
Temperature (°C) 95
Duration (mm:ss) 00:05
Optics On No

Step Name Step 2
Temperature (°C) 58
Duration (mm:ss) 00:07
Optics On No

Step Name Step 3
Temperature (°C) 60
Duration (mm:ss) 00:14
Optics On Yes

Parameters

Curve Correction

Channel	Analysis Start Cycle	Baseline Correction	
		Enable	Slope Limit
1-FAM	10	No	--
5-Quasar 705	10	No	--

Crosstalk Correction

	Emit\Receive	1	5
1-FAM	--	0.00 %	
5-Quasar 705	0.00 %	--	

Protocol: LDT-betaCoV (Version 1)

Positivity Criteria

Channel	Ct Threshold	Minimum Slope at Threshold		Maximum Ct	
		Enable	Value	Enable	Value
1-FAM	1000	No	--	No	--
5-Quasar 705	1000	No	--	No	--

Channel Validity Criteria

Channel	Minimum Background Fluorescence		Maximum Background Fluorescence		Lowest Valid Ct	
	Enable	Value	Enable	Value	Enable	Value
1-FAM	No	--	No	--	No	--
5-Quasar 705	No	--	No	--	No	--

Sample Validity Criteria

Minimum of 1 positive channel required	Yes
Internal Control (IC) in Channel 5	Yes

Export Settings

Protocol Lock Status	Off
Sample Results to LIS Mode	--
Revision Comments	BetaCoV

Notes

--
