Station C: ViaSure Real Time PCR Detection Kits: CerTest BioTek

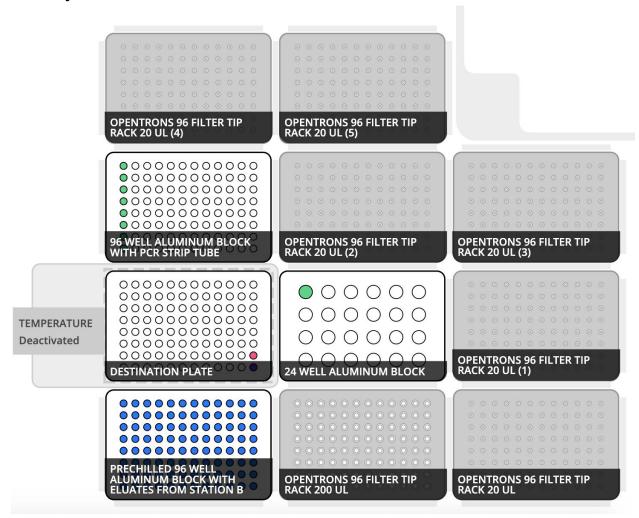
Code parameters:

- Change the sample number on line 14 (default is 94, maximum is 94)
- Change the sample volume on line 15 (default is 5µl)
- Tip rack tracking can be changed from False to True on line 17 (default is False)

Pipettes:

- P20 multichannel on the right mount
- P300 single channel on the left mount

Deck Layout:



Labware and module requirements:

- 1 x Temperature Module
- 6 x 20µl tipracks
- 1 x 200µl tiprack
- 3 x 96 well aluminum blocks (1 x **prechilled*** in slot 1, 1 x on top of the Temperature Module in slot 4, 1 x in slot 7)
- 1 x 24 well aluminum block [holds 2mL tube for rehydration buffer]

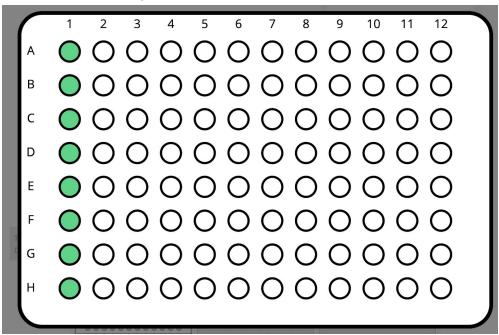
- 1 x 2mL tubes
- 1 x 200 µl PCR strip tubes on top of the 96 well aluminum block in slot 7
- 1 x 96 well plate [Input holds eluates/extractions from Station B)
- 1 x RT-PCR Plate (can be 96 well plate or PCR strip tubes) [Output]

Volume requirements:

Note: the below volumes account for a 10% overage - the dead volume can be adjusted depending on the calibration of the pipette to the labware, but it's recommended to have an overage of about 10%

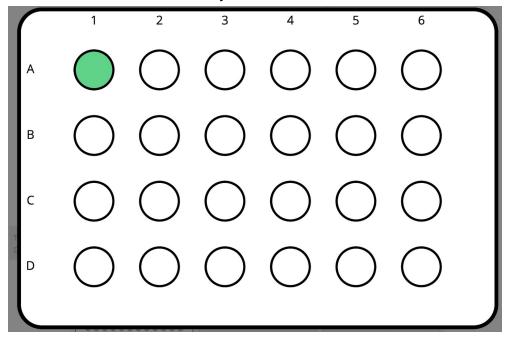
	Volume per sample (µI)	Volume for 8 samples (µI)	Volume for 48 samples (µI)	Volume for 96 samples (µI)
Rehydration Buffer	15	60	780	1,500

Slot 7 - load an empty PCR strip tube in column 1

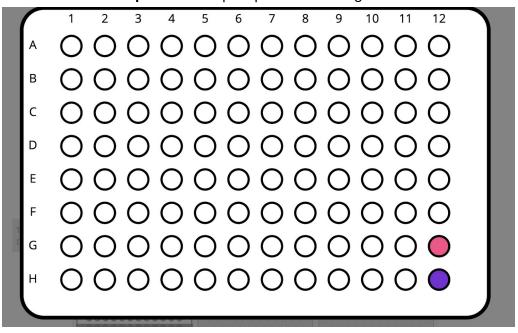


^{*}Prechilled means the aluminum block has been chilled in the -20C before beginning the protocol

Slot 5 - load a 2mL tube with rehydration buffer in well A1



Slot 4 - destination plate - load 5µl of positive and negative control into wells G12 and H12.



Before you begin:

- 1. Pre-cool the Temperature Module in the Opentrons App to 4°C
- 2. Eluates (extractions) from Station B are loaded onto a **Prechilled** 96 well aluminum block on slot 1.
- 3. Add the Rehydration buffer tube to the 24 well aluminum block in slot 5.
- 4. Add the empty strip tube to the 96 well aluminum block in slot 7
- 5. Add the **5** µl of control to each corresponding tube in the destination plate

6. Check again to make sure each component is added and the Temperature Module is pre-cooled to 4°C.

The final destination RT-PCR plate will be in Slot 4 on top of the Temperature Module. Once the protocol is complete, the plate will be ready to be sealed, spun down, and loaded onto an RT-PCR machine.

8 sample plate layout:

	1		2	3	4	5	6	7	8	9	10	11	12
A	1	+ control											
В	2	- Control											
С	3												
D	4												
E	5												
F	6												
G	7												
Н	8												

94 sample plate layout:

or our pro prime in your												
	1	2	3	4	5	6	7	8	9	10	11	12
Α	1	9	17	25	33	41	49	57	65	73	81	89
В	2	10	18	26	34	42	50	58	66	74	82	90
С	3	11	19	27	35	43	51	59	67	75	83	91
D	4	12	20	28	36	44	52	60	68	76	84	92
E	5	13	21	29	37	45	53	61	69	77	85	93
F	6	14	22	30	38	46	54	62	70	78	86	94
G	7	15	23	31	39	47	55	63	71	79	87	+ control
Н	8	16	24	32	40	48	56	64	72	80	88	- Control