Station C: SLP-007 for Primer Addition for COVID-19 Setup guide

Code parameters:
- Tip tracking (line 12) - if set to 'True', protocol will save the state of the tips after each run and will prompt user to replace tips when tips run out.
- Rack definition (line 13) - define the labware that will be used to hold the tubes of N1 and N2, if automating transfer to PCR strips
- Pipette controls (line 14) - if set to 'True', protocol will pipette 35µL of primers to PCR strip from tube rack (as defined in line 13)

Pipettes:
- P20 Multi-Channel Pipette on the left mount
- P300 Single-Channel Pipette on the right mount, if doing optional step

Deck Layout:
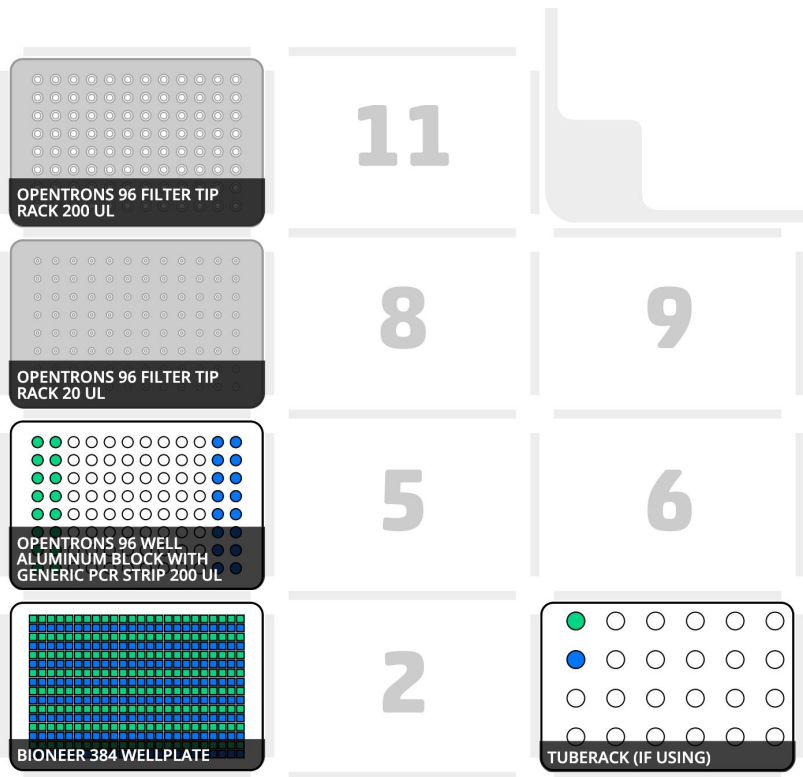
Labware and module requirements:
- 1 x Bioneer 384-well plate
- 1 x Opentrons 96-well aluminum block
- 4 x PCR strips
- 1 x Opentrons 20µL Filter Tipracks
- 1 x Opentrons 200µL Filter Tipracks
- 1 x Opentrons 24-well Tuberack, optional

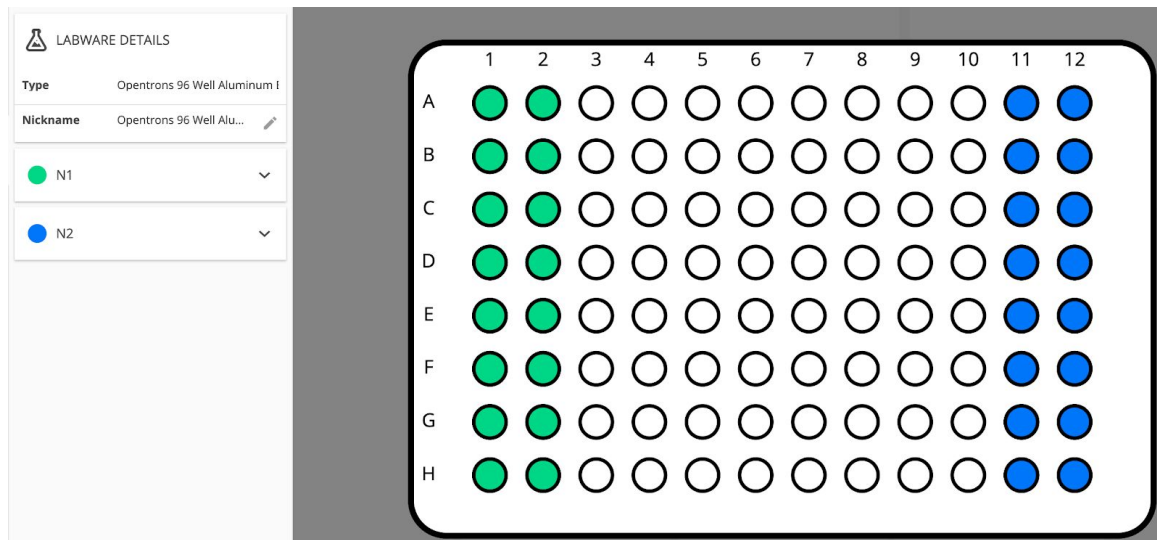**Slot 4, Opentrons Aluminum Block + PCR Tubes -**
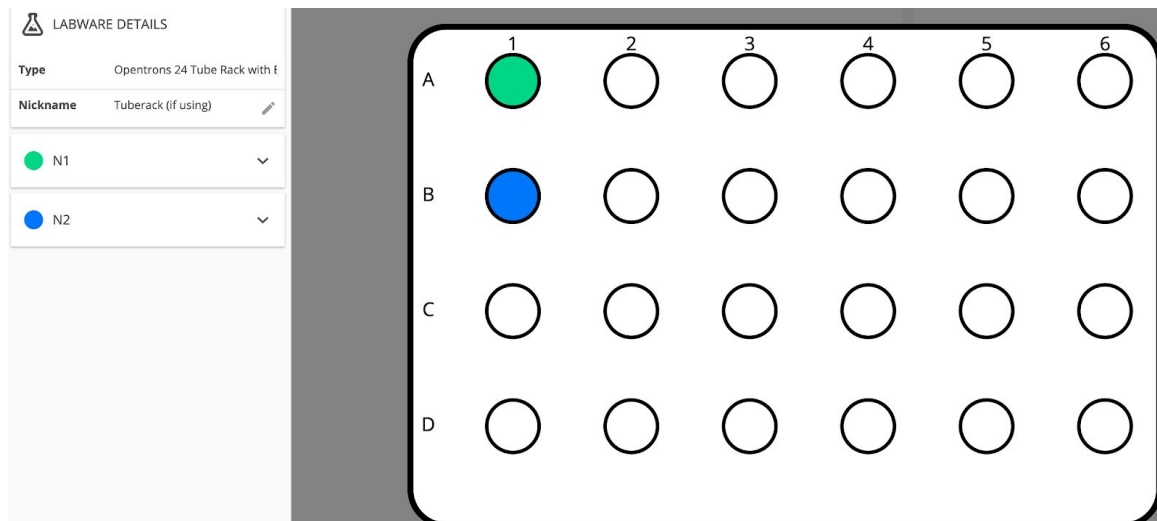Column 1: N1, 35μL
Column 2: N1, 35μL
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Column 11: N2, 35μL
Column 12: N2, 35μL

*Note: If PIP_CTRL is set to True (line 14), the P300 Single-Channel Pipette will transfer 35μL from the Opentrons Tuberack to each corresponding well in empty PCR strips. Otherwise, the primer/probes should be manually transferred to PCR strips and loaded into the aluminum block.
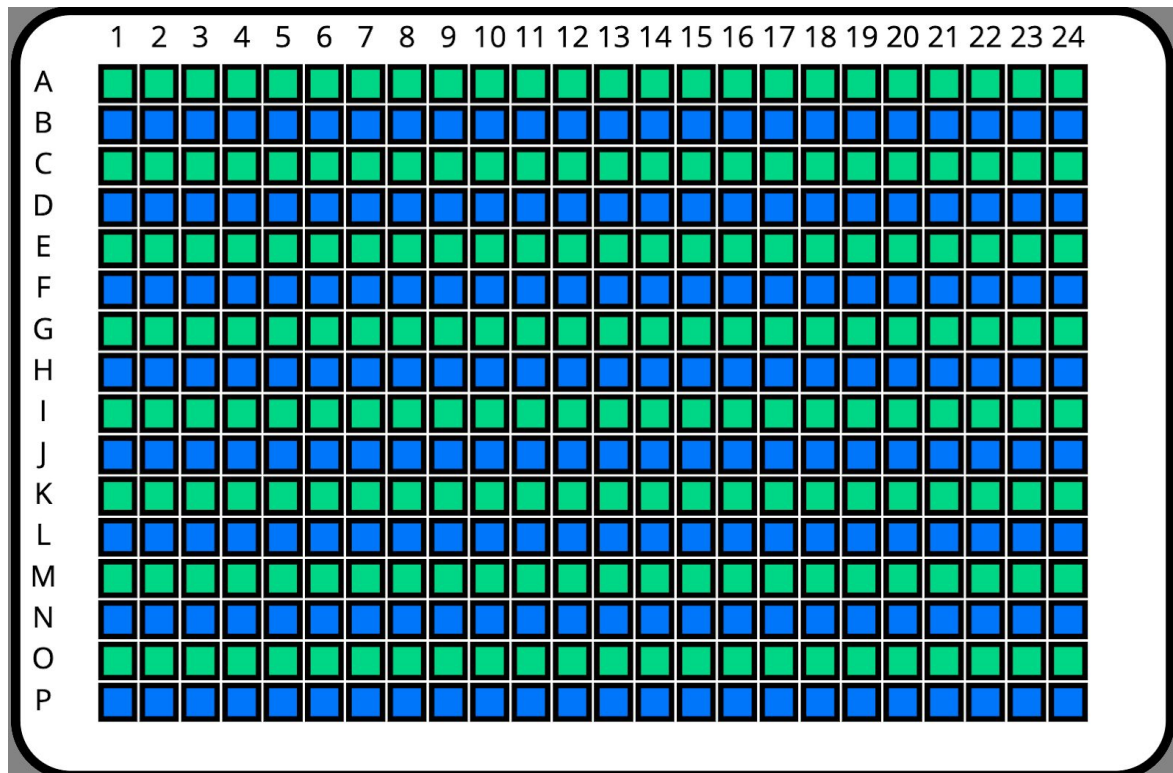

Slot 3, Opentrons Tuberack, *optional* **-**
If using, load position A1 with a tube containing N1 (600μL) and position B1 with a tube containing N2 (600μL).

Slot 1, Bioneer 384-well Plate (Final output) -
Schematic of plate layout at end of protocol; protocol will add 2µL of N1 (noted by green) and 2µL of N2 (noted by blue) to the corresponding wells.

Before you begin:
1. **Add PCR strips to the aluminum block with N1/N2 (or change line 14 to `True` to automate the transfer of N1/N2 to PCR strips).**
2. **Calibrate pipette and labware.**