

Quick Guide

RNA extraction and purification using Sterilab NC-15 Plus For 16 or 32 samples, with wet or dry swabs or saliva specimens

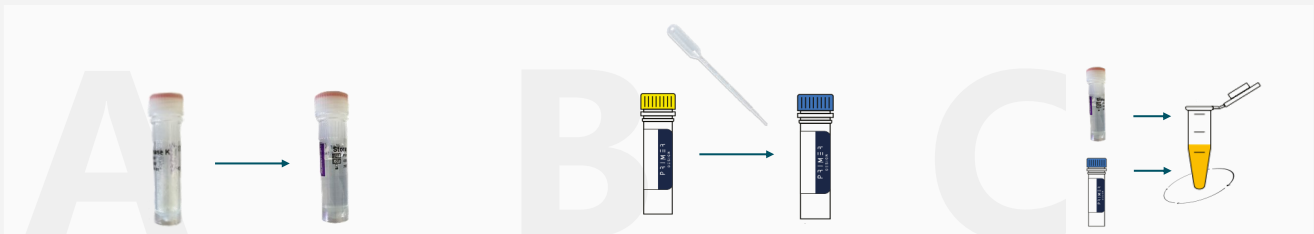
V5—19/03/2021

MAKE UP BULK REAGENTS (ONCE A WEEK)

1. PREPARE BULK REAGENT A (SUFFICIENT FOR 6 EXTRACTION PLATES)

- From alphasgene kit, dilute two vials Proteinase K with 1ml Proteinase K buffer.
- From Genesig kit, dilute two vials Genesig Internal Extraction Control (IEC) with 1ml of template preparation buffer.
- Pool the Proteinase K and IEC. Vortex and aliquot in 665 μ L quantities.

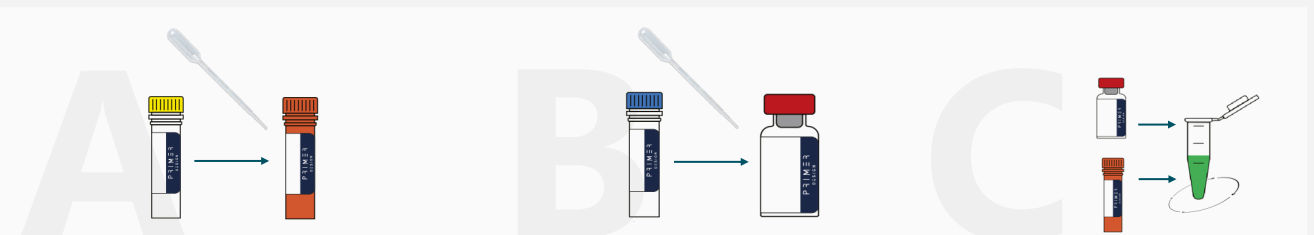
Freeze at -20°C or below until use.



2. PREPARE BULK REAGENT B

- Dilute both COVID-19 primer/probes (P/P) with 110 μ L template preparation buffer from the Genesig kit.
- Dilute both OT-qPCR master mix (M/M) with 525 μ L resuspension buffer from the Genesig kit.
- Pool 100 μ L P/P from each tube and 500 μ L M/M from each tube. Vortex and aliquot in 12 μ L quantities into 0.1ml reaction tubes.

Freeze at -20°C or below until use.

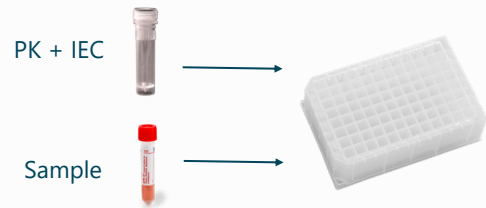


EXTRACTION PROCESS

1

Pipette 40µL Proteinase K / Internal Extraction Control to column 1 (excluding wells 1 & 2) and column 7, followed by 200-300µL of UTM/VTM (using a transfer pipette).

Estimated time: 20 seconds per sample.

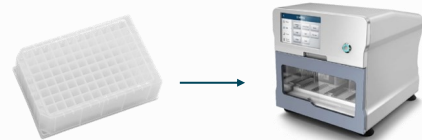


2

Load plate and tip comb onto the Sterilab NC-15 Plus nucleic acid extraction platform. Select preprogrammed Covid profile and 'Run'

Produces 80µL of purified RNA in column 6 and 12.

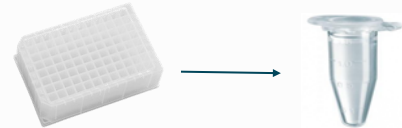
Time: 29 minutes.



3

Transfer 8µL eluate from columns 6 and 12 to the 0.1mL PCR reaction tube.

Estimated time: 1 minute per sample



Proceed with amplification + reporting of results

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