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ENNOLIFE SARS-CoV-2 Antigen Test Kit Protocol

In 1 collection

DOI

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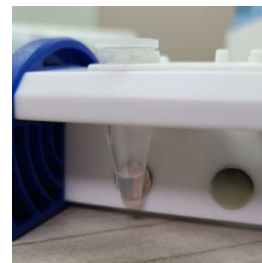
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Protocol status: In development

We are still developing and optimizing this protocol

Created: August 28, 2020

Last Modified: August 31, 2020

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Keywords: ennolife sar, sar, antigen

Setup ENNOLIFE Clinical Chemistry Analyzer

- 1 Make sure ENNOLIFE Clinical Chemistry Analyzer and Notebook was connected according to the operation manual. Double click "ENNOLIFE COVID-19 software" shortcut from the desktop.



- 2 Keyin Patient IDs then press "START" to check the connection of Analyzer and Notebook.

ENVOLIFE

Time remaining **00:00**

Barcode Scanning UTM Swab

SARS-CoV-2 Control

☐ STEP 1 Key in ID

ID-1: **1** NP Conc. (ng/mL) **0**

ID-2: **Dummy** NP Conc. (ng/mL) **0**

ID-3: **Dummy** NP Conc. (ng/mL) **0**

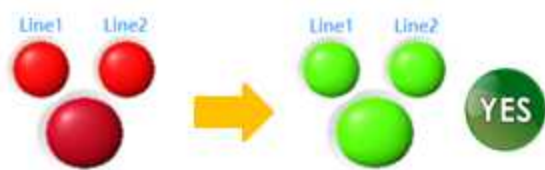
☐ STEP 2 Click button **BLANK** or **START**

Message

Blank Setting **0**

STOP

Line1 Line2 YES



Three green light means connection is successful.

Running a nasal swab sample

- For specimen collection of nasal swabs, follow the CDC Swab Collection Guidelines and swab manufacturers' recommendations. Use a flocked tapered swab. Tilt patient's head back 70 degrees. While gently rotating the swab, insert swab less than one inch (about 2 cm) into nostril (until resistance is met at turbinates). Rotate the swab several times against nasal wall and repeat in other nostril using the same swab.
- Place and soak the Patient Swab into the Tube R1 (extraction buffer). Rotate and stir up and down the swab for 15 secs then standing for 1 min. 00:01:15
- Mix Tube R1 for several times by swab and discard the swab in biohazard waste.



5 Transfer solution  100 μ L from Tube R1 to the Tube R2.

6 Mix Tube R2 by a vortex mixer.  1500 rpm, 25°C, 00:00:10

Note

Make sure all beads are suspended well.

7 Insert Tube R2 into carrier of vortex mixer and mix for 15 min.

 1500 rpm, 25°C, 00:15:00

8 While waiting, open pouch and setup the reagent disc into holder. Install the holder on the Analyzer.



9 Spin down Tube R2.  5000 rpm, 25°C, 00:00:10

Insert Tube R2 into Magnetic Rack and stand for 30 secs.  00:00:30



- 10 Remove supernatant of Tube R2.

Note

Attention, do not remove any magnetic beads.

- 11 Add 1000 μ L Wash Buffer to Tube R2.  1000 μ L Wash buffer
Mix for 10 secs by a vortex mixer.  1500 rpm, 25°C, 00:00:10
- 12 Spin down Tube R2 for 10 secs.  5000 rpm, 25°C, 00:00:10
Insert Tube R2 into Magnetic Rack and stand for 30 secs.  00:00:30



- 13 Remove supernatant of Tube R2.

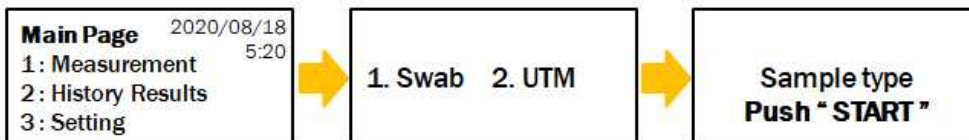
Note

Attention, do not remove any magnetic beads.

- 14 Transfer solution  100 μ L from Tube R3 to the Tube R2.
Mix for 10 secs by a vortex mixer.  1005 rpm, 25°C, 00:00:10
- 15 Transfer  100 μ L from Tube R2 (including beads) into the Reagent Disc.



- 16 On the Mainpage of the Analyzer
(1) Select "Measurement". (2) Select "Swab". (3) Select "START".



17 After 10 mins, software will show the results. ⌚ 00:10:00

The screenshot shows the ENVOLIFE software interface. At the top, there's a logo and a "Time remaining" display showing "00:00". Below this, there's a "STEP 1 Key in ID" section with three rows for ID-1, ID-2, and ID-3. ID-1 has a value of "1" and "NP Conc. (ng/mL)" of "3.58". ID-2 and ID-3 have "Dummy" values and "0" for NP Conc. To the right of these are buttons with "+" and "X" symbols. Further right are two columns of buttons labeled "SARS-CoV-2" and "Control". The "SARS-CoV-2" column has a green "+" button and two red "X" buttons. The "Control" column has three red buttons. At the bottom, there's a "STEP 2 Click button" section with "BLANK" or "START" buttons. On the far right, there are indicators for "Barcode Scanning" (a green bar), "UTM" (a green circle), and "Swab" (a green circle).