

Portable Mini Lab for COVID-19 **Express Diagnostics** 



#### Intended Use

The portable mini lab is designed to quickly detect SARS-CoV-2 RNA presence in biological material by using realtime isothermal amplification from nasopharyngeal and oropharyngeal swabs and sputum.

Testing time – 30 minutes, including pretreatment procedure (3 minutes/sample) and the isothermal amplification reaction (not more than 25 minutes).

Average laboratory on-the-flow capacity is 20 samples/hour. Sensitivity - from 100 particles

## Portable Laboratory Includes:

- 1. Pretreatment device (for RNA isolation) 1 pc.
- 2. Isothermal amplifier (for detection) 1 pc.
- 3. Automatic pipettes 2 pcs.
- 4. Single-use tips for pipettes.
- 5. Microtube rack.
- 6. Laptop.

# Consumables Required for Testing:

- 1. Detection kit for the SARS-CoV-2 RNA presence.
- 2. Reagent kit for the SARS-CoV-2 RNA nucleic acids extraction.

## Storage

Portable lab – no expiry date when t = +2...+35°C (non-condensing). Detection kit for the SARS-CoV-2 RNA presence -12 months (-20°C); 7 days (+2...+4°C). Reagent kit for the SARS-CoV-2 RNA nucleic acids extraction -12 months when t = +2...+30°C.

#### **Environmental Conditions**

Temperature: + 18...+25 °C Relative humidity: 30...75 %

### Required Staff

1 laboratory assistant duly trained to work in a PCR laboratory