

# COVID panel

For the characterization of SARS-CoV-2 virus



## COVID panel

- Detection of all known variants
- Optimized to identify the Omicron variant
- Sequence of the entire SARS-CoV-2 genome
- Dedicated analysis software
- Hands on time < 1h

## TECHNOLOGY

COVID panel is a CE-IVD kit for the analysis of the SARS-CoV-2 genome through a molecular protocol based on NGS technologies.

The kit contains all the reagents required for the preparation of specific bi-directional amplicon libraries for Illumina and Ion Torrent platforms.

This technology provides an easy-to-use and fast solution for characterization of SARS-CoV-2 through a quick and easy workflow.

## WORKFLOW

Library preparation follows a straightforward, PCR-based protocol that can be completed in as little as 5 hours, with < 1 hours hands-on time. Resulting libraries can be normalized, pooled, and then loaded on to a flow cell for sequencing.

## DATA ANALYSIS

COVID panel is part of an integrated solution with a dedicated proprietary pipeline for data analysis.

COVID Panel was designed from reference sequence MN908947 (NC\_045512.2) to cover the entire viral genome.

4bases support the implementation and customization of the analysis based on the needs of the laboratory.

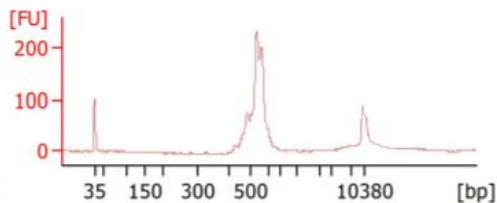


Figure 1. COVID panel Bioanalyzer profile (final library)

## SAMPLES

The kit is validated for the analysis of cDNA samples obtained from reverse transcription of RNA done with any commercial kit.

cDNA input: 12ng

A cDNA positive control is provided with the kit.

## THE IMPORTANCE OF THE NGS METHOD IN SARS-CoV-2

NGS technology allows to process a higher number of samples reducing costs.

Limited presence of false negatives and higher number of targets compared to other technologies.

## SAMPLE PER RUN

Instrument	Sample per run
MiSeq Nano Kit v2 (500-cycles)	3
MiSeq Kit v2 (500-cycles)	48
MiSeq Kit v3 (600-cycles)	72
Ion 314™ Chip	2
Ion 316™ Chip	16
Ion 318™ Chip	48
Ion 350™ Chip	>96
Ion PI™ Chip/Ion 540™ Chip >384	>96

*\*the maximum number of samples per cartridge/chip estimated assuming an average depth of 1000x. The optimal number of samples must be empirically determined on local setups.*

## ORDERING INFORMATION

Product	REF
COVID panel	H1110-96 (96 test)
COVID panel	H1110-384 (384 test)
C+ COVID cDNA	H111.CP.55 (4 test)
<i>For Illumina instrument**</i>	
Index Set series RUO - CE	3000
<i>For Ion Torrent instrument**</i>	
Barcode series RUO - CE	6000

*\*\*for the complete list of available indexes and barcodes, refer to Flyer\_Index-Barcode*