

# Molecular Diagnostics for COVID and Viral Load

- Fully Automated Extraction Solution
- Fast and Simple Viral-Load Analyzer
- COVID-19 Multiplexed PCR test

- Nucleic Acid Extractor

- Viral-Load Analyzer



# NuActor & Viral RNA/DNA extraction kit

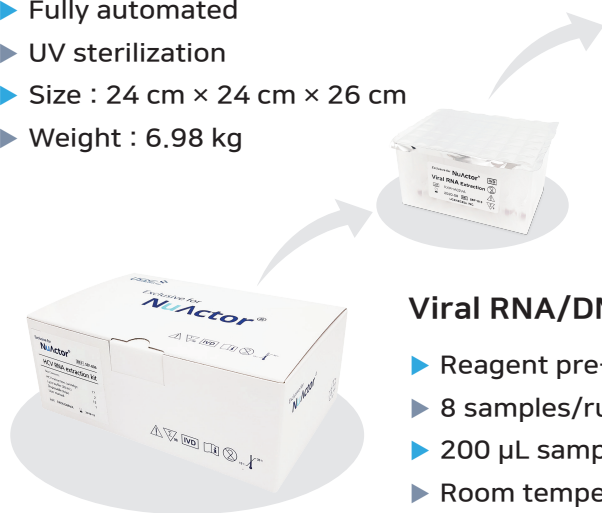
NuActor is an automated NA (nucleic acid: DNA/RNA) extraction solution with its own device and cartridge. Since all PCR requires a DNA/RNA isolating pre-treatment step, NuActor can be used as reliable partner for any commercialized PCRs.

Especially, NuActor is designed to be a perfect partner for ExAmplar.

By processing 8 samples within 15 minutes, NuActor can provide agility to deal with urgent test needs as well as throughput to cover routine processing needs. Several NuActor exclusive cartridges are available for different sample types and purposes and the list is growing constantly.

## Automated Extractor

- ▶ Extraction time < 15 mins
- ▶ From sample 200  $\mu$ L
- ▶ Exclusive cartridge system
- ▶ Magnetic bead method
- ▶ Fully automated
- ▶ UV sterilization
- ▶ Size : 24 cm  $\times$  24 cm  $\times$  26 cm
- ▶ Weight : 6.98 kg



## Viral RNA/DNA Extraction kit

- ▶ Reagent pre-filled cartridge
- ▶ 8 samples/run in within 15 minutes. (1 box: 96 tests)
- ▶ 200  $\mu$ L sample to 100  $\mu$ L DNA/RNA elution
- ▶ Room temperature storage

## Ordering information

Product	Cat #	Test
NuActor	FPRR032	8T/run (< 15 mins)
Viral RNA extraction kit	UFPK-1	8T/kit (96T/box)
Viral DNA extraction kit	UFPK-2	8T/kit (96T/box)
Sputum DNA extraction kit	UFPK-3	8T/kit (96T/box)
Animal NA extraction kit	Upgrading	

# ExAmplar

ExAmplar is a name given with a hope to be an exemplar of molecular diagnostics. With the patented fast temperature ramping technology, ExAmplar is one of the fastest real-time PCR device.

The primary goal to develop ExAmplar was to be suitable in most rough and barren circumstances ever where the need for accurate diagnosis is still not met.

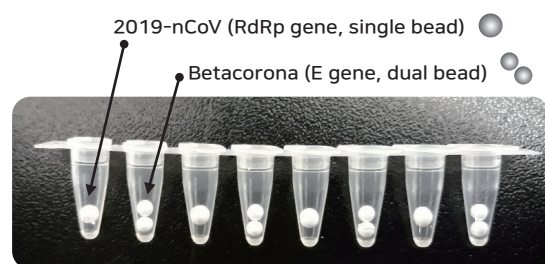
Coupled with scaled up freeze-drying technology for enzymes applied to our PCR or RT-PCR kits, ExAmplar can dream being the public PCR testing solution for all neglected corners of the world.

## RT-PCR Analyzer

- ▶ Fast, Small and Cost Effective
- ▶ Time to result: < 30 mins (DNA)/< 55 mins (RNA)
- ▶ Sample type/volume: DNA or RNA 5 µL
- ▶ 8 tests/run
- ▶ Size : 20 cm × 24 cm × 18 cm
- ▶ Weight : 2.88 kg



## Real-time COVID-19 PCR tests



## Real-time PCR tests

- ▶ ExAmplar COVID-19 real-time PCR kit (L)
- ▶ Quanti-HCV v2.0 (for ExAmplar)
- ▶ Quanti-HBV v2.0 (for ExAmplar)
- ▶ Quanti-HIV-1 v2.0 (for ExAmplar)
- ▶ MTB kit v2.0 (for ExAmplar)

Room temperature storage

## Ordering information

Product	Cat #	Test
ExAmplar	FPRR030	8T/run < 30 mins(DNA)/< 55 mins(RNA)
ExAmplar COVID-19 real-time PCR kit (L)	UFPK-4	48T/box
Quanti-HCV v2.0	Upgrading	60T/box
Quanti-HBV v2.0	Upgrading	60T/box
Quanti-HIV-1 v2.0	Upgrading	60T/box
MTB kit v2.0	Upgrading	72T/box

Note: all PCR Kit is provided with lyophilized form

## COVID-19 Multiplexed PCR test

**ExAmplex**

# ExAmplex Series

ExAmplex is specially designed PCR kit to detect multiple specific genes within single standard type tube. Ugenecell developed ExAmplex products to diagnose COVID-19 and Flu A/B together and(or) to diagnose multiple target genes in COVID-19.

ExAmplex PCR kit is compatible with open PCR systems and can be shipped and stored at room temperature. Room temperature shipping and storage condition of ExAmplex enables you to lower related costs. ExAmplex can be stored 1 year at room temperature, in addition to the simplest possible work procedure. Just put extract into the tube and run the PCR.

- ▶ Ready-to-use
- ▶ Stable at Room temp.



### ExAmplex Influenza A/B SARS-CoV-2 PCR kit

- ▶ Multiplex: detecting Flu A, Flu B, and COVID-19 in ONE tube
- ▶ Lyophilized: shipping and storage at room temperature (no dry ice needed)
- ▶ Target and Performance:

Target	LOD (copies/rxn)	95% of CI (copies/rxn)
Influenza A: M gene	4.96	3.11~7.92
Influenza B: HA gene	34.06	25.52~45.44
SARS-COV-2 : N gene	6.79	3.46~13.32

### ExAmplex COVID-19 PCR 3-gene lyo kit

- ▶ Multiplex: detecting 3 COVID-19 genes in one tube
- ▶ Lyophilized: shipping and storage at room temperature (no dry ice needed)
- ▶ Target : SARS-CoV-2 N gene, ORF1-ab gene and Sarbeco E gene

### ExAmplex COVID-19 PCR 3-gene kit

(Liquid type is also available)



### Ordering information

ExAmplex	Cat #	Test
Influenza A/B SARS-CoV-2 PCR kit	UFPK-6	96T/run
COVID-19 PCR 3-gene lyo kit	Upgrading	96T/run