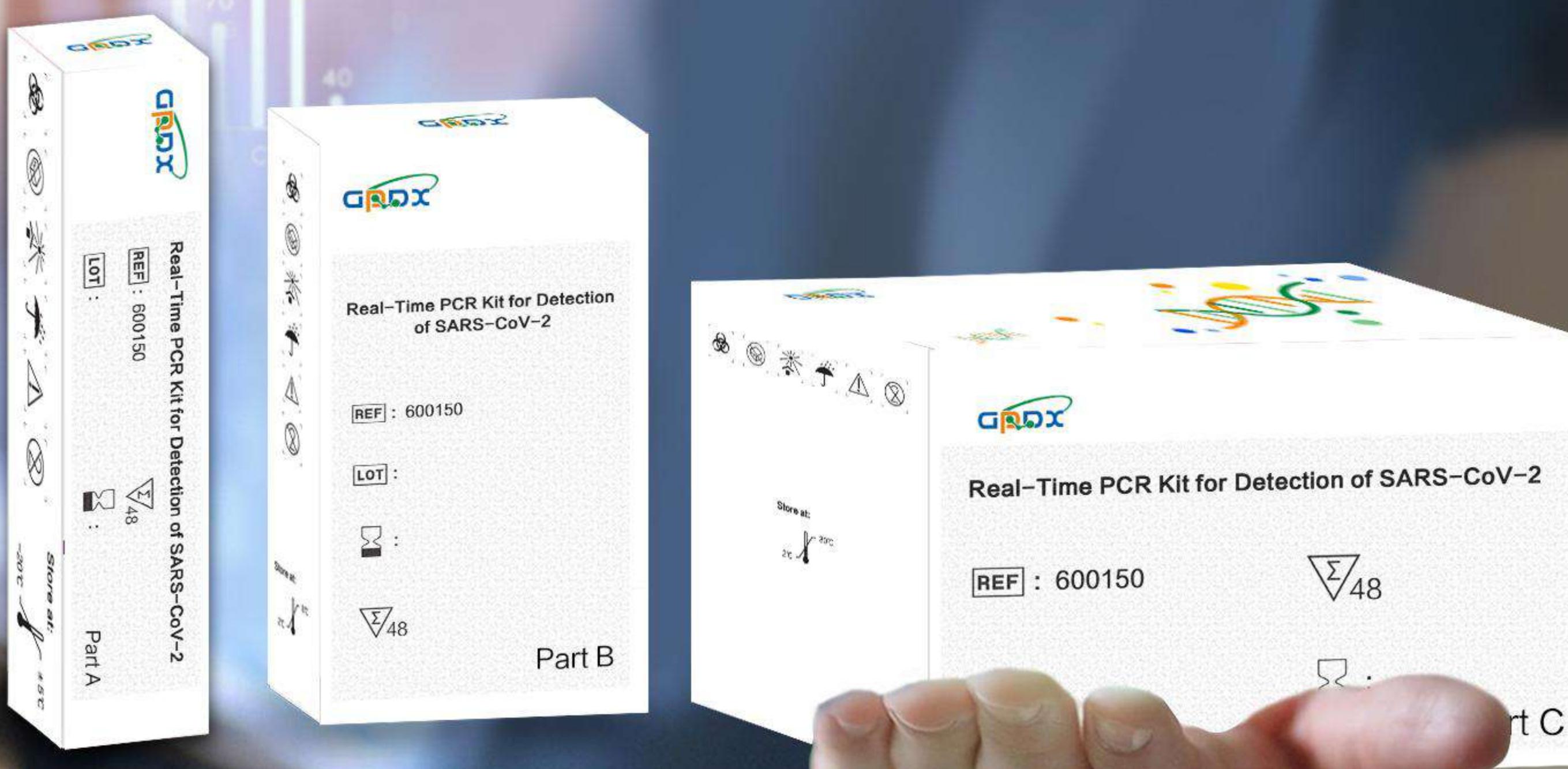


# **GPDX SARS-CoV-2**

## **Rapid Real time PCR solution**



# Real-Time PCR Kit for Detection of SARS-CoV-2



- CLINICAL TRIAL in China, good Coincidence rate with over 500 clinical samples, CE mark approved
- UNIQUE TECHNOLOGY, inactivate virus and preserve RNA at room temperature
- EASY TO USE, mix sample and lysis buffer, then do PCR amplification in machine
- TIME SAVING, from sample to result in 30 minutes
- QUALITY TRUST, Internal control inside to monitor the False Negative



# Product advantage

## ■ Inactivating Virus during sample collection – safety and efficiency

The virus can be inactivated directly after the sample is placed into the preservation solution at room temperature without RNA degradation.



## ■ NOT NEED the RNA extraction and purification – easy to use, labor and time saving

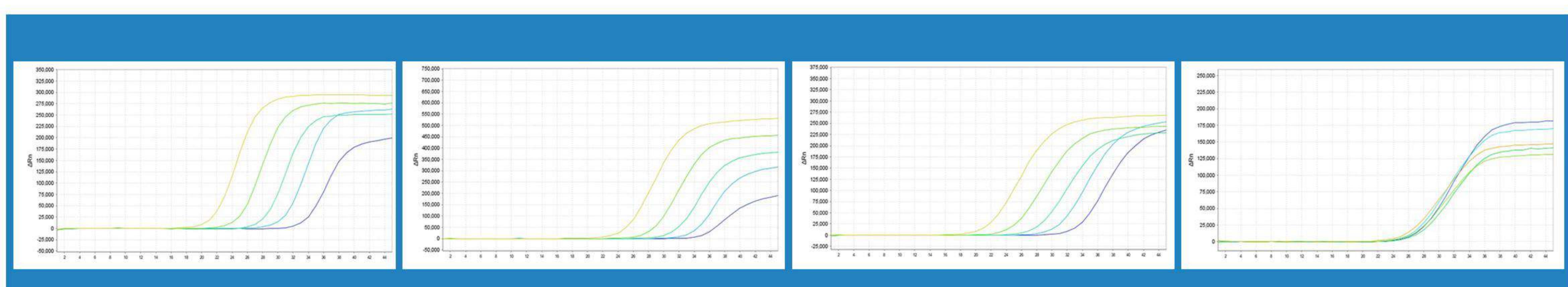
**DO NOT NEED** the RNA extraction and purification any more, what customer needs to do is to add the sample already in preservation tube into the PCR tube, mixed with the lysis buffer and PCR buffer directly.

**VERY EASY TO USE**, The test can be started after mixing the enzyme with the reaction solution, no pipette is needed, suitable for POCT scenes



## ■ Quadruplex PCR amplification technique and Internal Control inside – monitoring the false negative

Detection the ORF1ab gene(FAM),N gene (ROX),E gene(CY5)and internal control(HEX/VIC)in one tube at the same time,the recommended platform is YS-qPCR-1,ABI 7500 and SLAN.



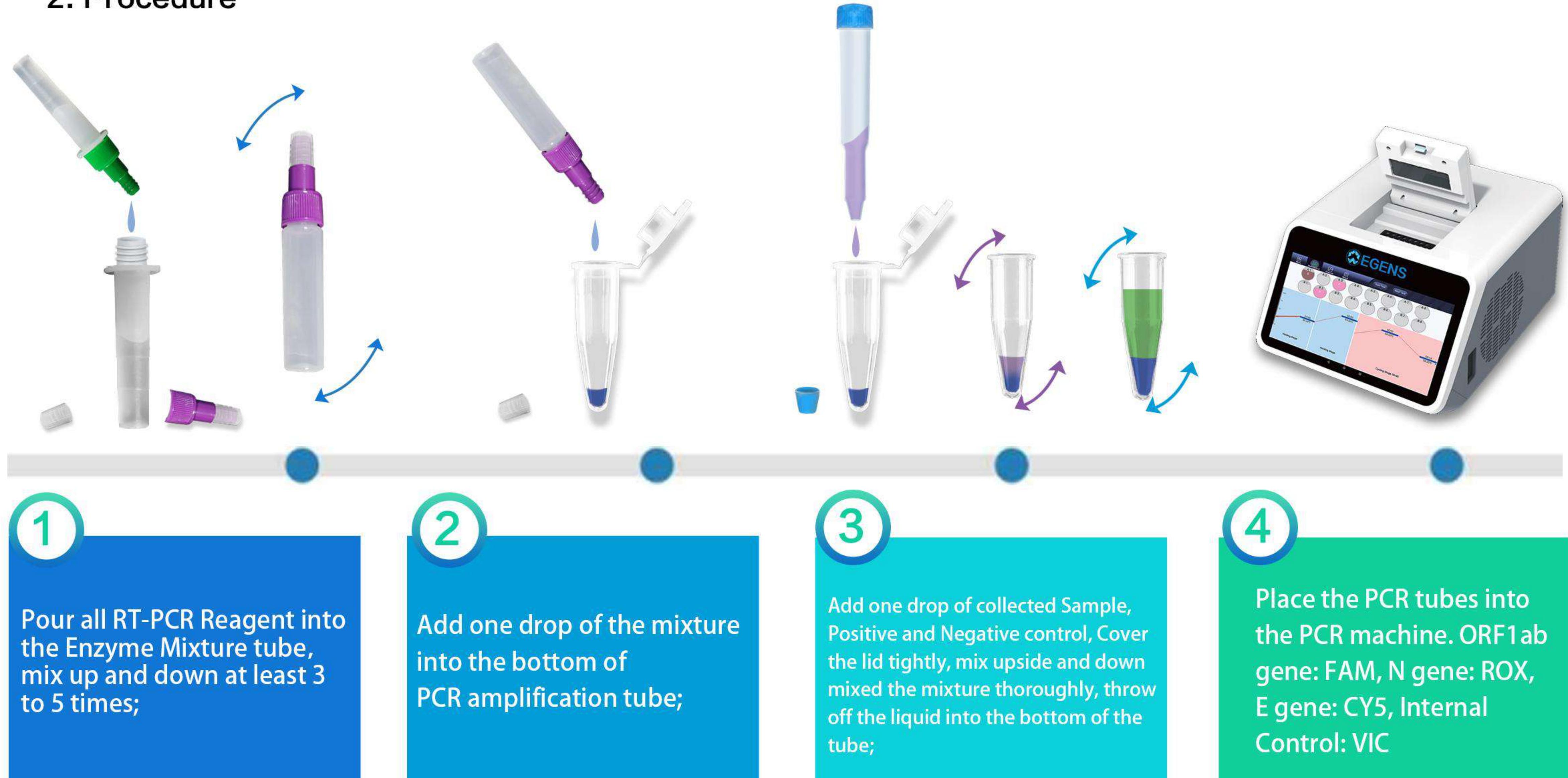
# Operation instructions

## ■ Instructions for the use of the throat swab collection tube

### 1. Sample collection and processing

Collect a throat swab following the standard procedure of guideline, break off the head of the throat swab along the kink mark into the preservation solution tube, tighten the cap, and shake it for 5 times to make the cell blend into the liquid.

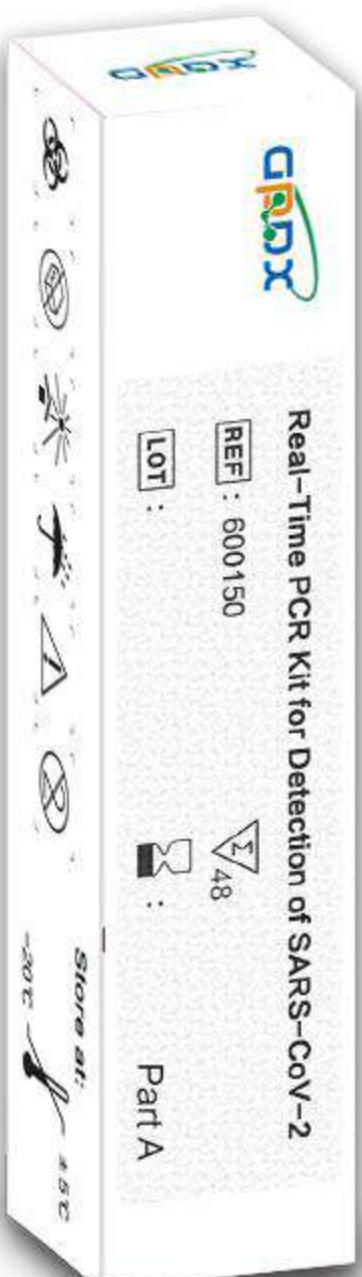
### 2. Procedure



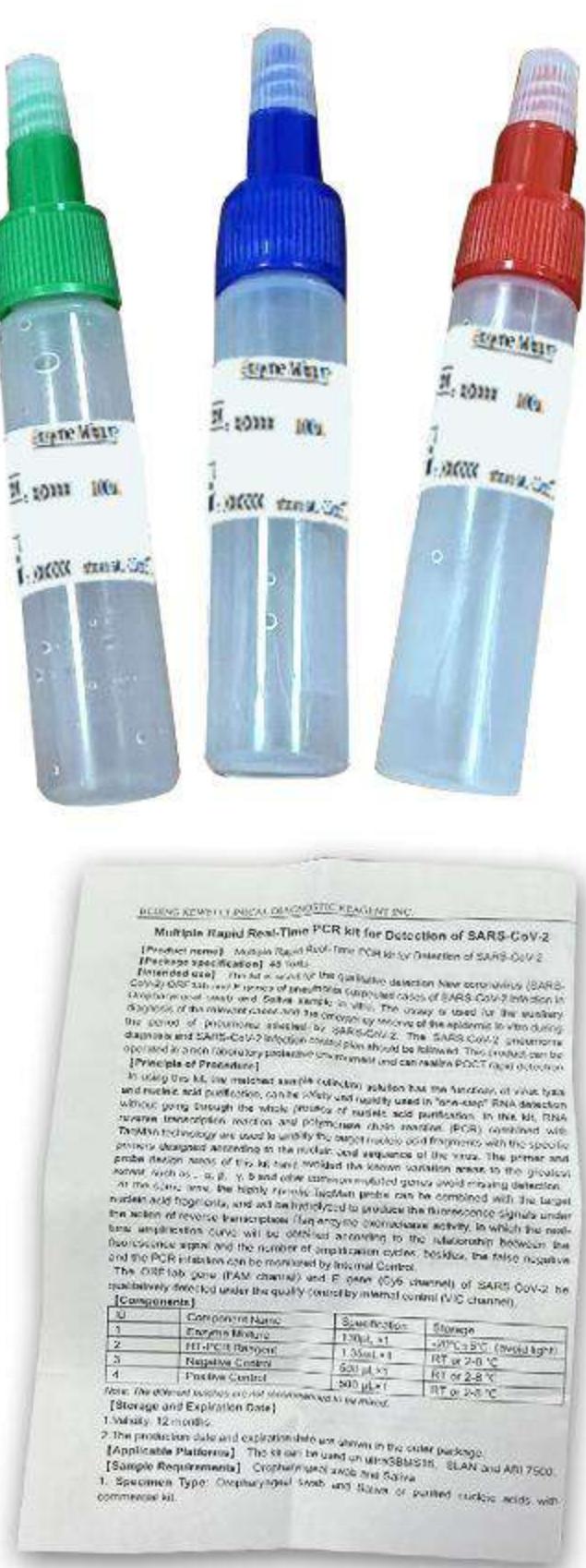
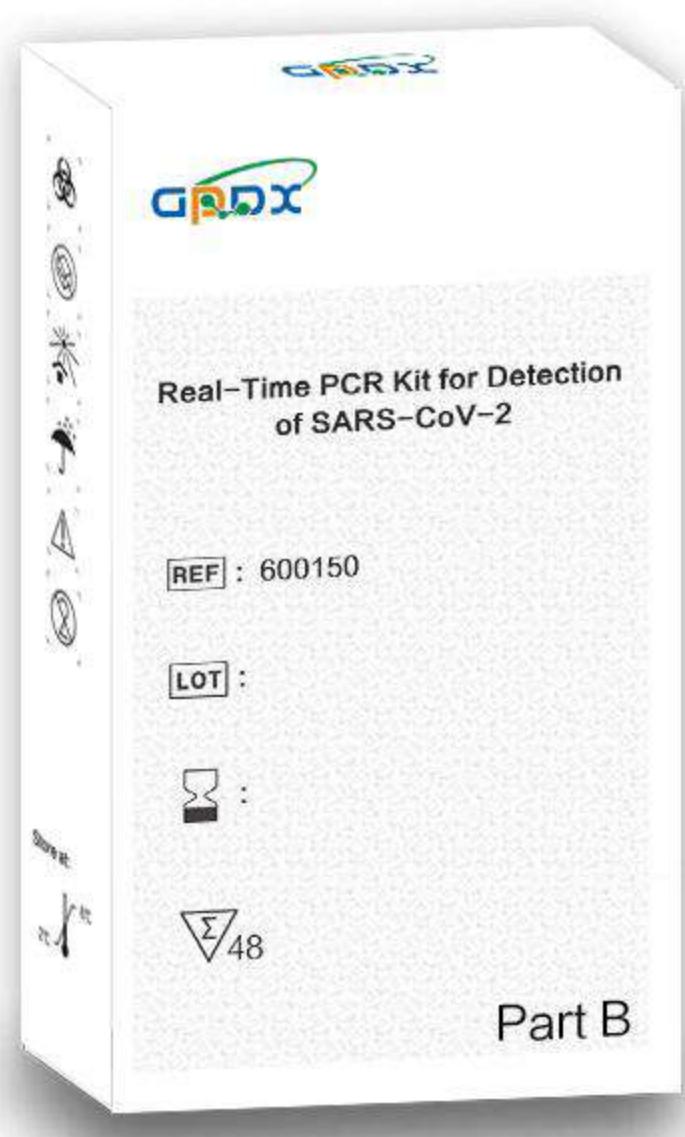
- Sample type : Throat swabs, Saliva, alveolar lavage fluid and nucleic acid purified by commercial kit
- Applicable Platform:
- At least the FAM/VIC/HEX/ROX/CY5 channels should be included, and need to be validated
- Validated on HONGSHI SLAN, Thermo ABI7500, Roche LC480 Egens YS-qPCR-1
- Lower limit of detection: 50 copy/ml
- Detection precision: ORF1 ab gene (CV 1.0%), E gene (CV 0.6%),N gene (CV 0.6%)
- Coincidence rate of National Positive and Negative reference: 100%



# composition



Name	Quantity	Transport Temperature	Storage Temperature
Enzyme Mixture ( Purple )	1	2°C to 8°C(avoid light)	-20°C ± 5°C(avoid light)



Name	Quantity	Transport Temperature	Storage Temperature
RT-PCR Reagent ( Green )	1	2°C to 8°C	2°C to 8°C
Negative Control (Blue)	1	2°C to 8°C	2°C to 8°C
Positive Control (Red)	1	2°C to 8°C	2°C to 8°C
Instruction	1	2°C to 8°C	2°C to 8°C



Name	Quantity	Transport Temperature	Storage Temperature
Sample Preservation Solution	48	2°C to 30°C	2°C to 30°C
Throat Swab	48	2°C to 30°C	2°C to 30°C
8-strip tubes	6	2°C to 30°C	2°C to 30°C
Recycle bag	6	2°C to 30°C	2°C to 30°C
Instruction	1	2°C to 30°C	2°C to 30°C

Code	Product Name	Format	Methodology
600150	Real-Time PCR Kit for Detection of SARS-CoV-2	48T/Kit	Real-Time PCR

# YS-qPCR-1

## Real-time Fluorescence Quantitative PCR

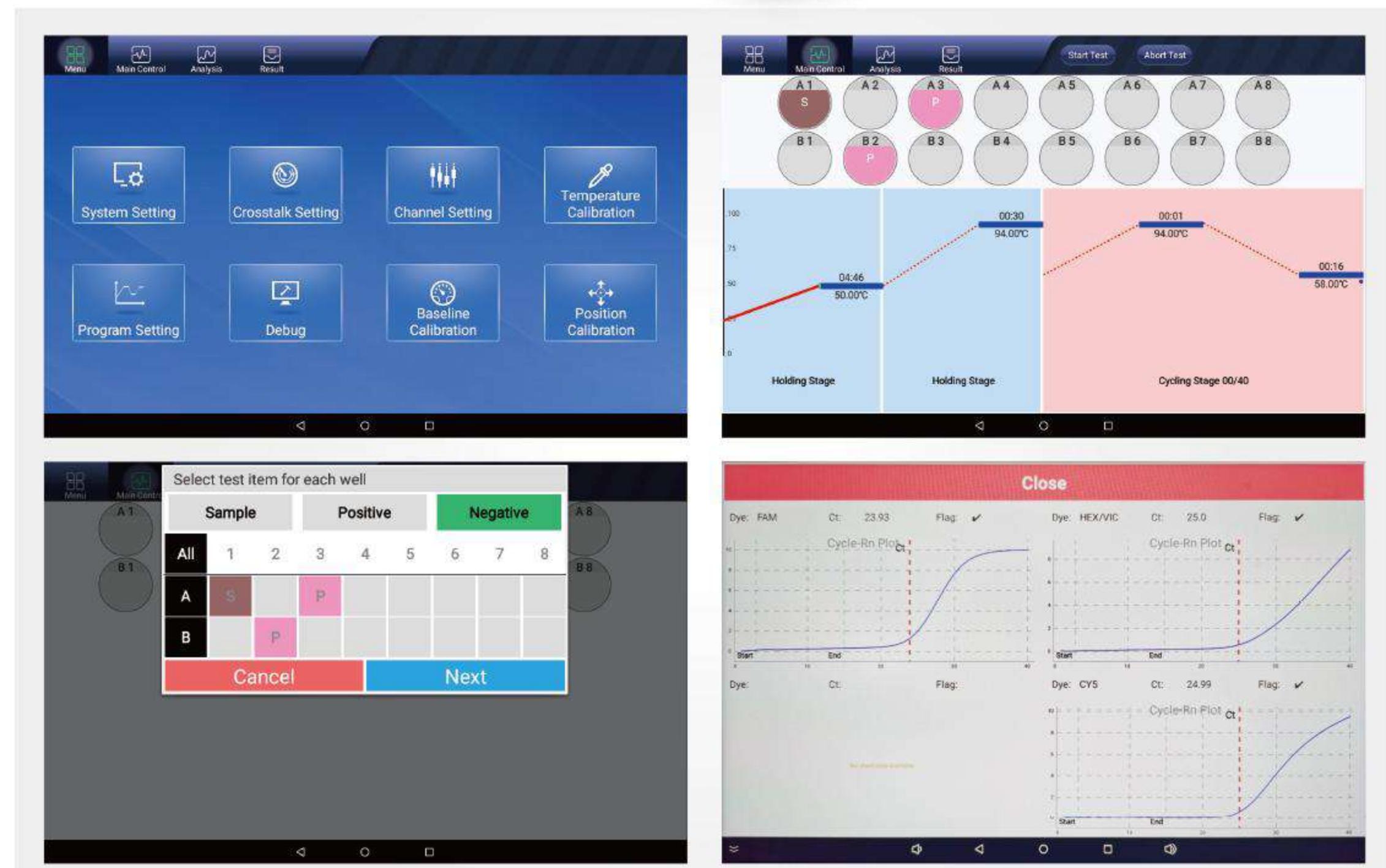


### Overview

YS-qPCR-1 is based on fluorescent polymerase chain reaction (PCR) and requires use with a companion nucleic acid detection reagents. It can be used clinically for quantitative and qualitative detection of nucleic acid samples (RNA/DNA) from humans, including pathogens and human genetic engineering.

### Structure and Composition

YS-qPCR-1 is mainly composed of a control assembly, a photoelectric assembly, a thermal cycling assembly, a heated lid assembly, housing components and system software.

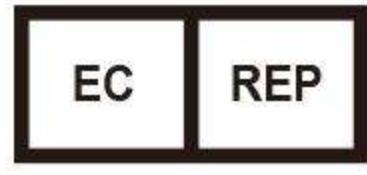


### Features

1. Adopt advanced thermoelectric cooler, reliable performance.
2. LCD display (10.1 inches) with capacitive touch panel, rich and clear display information, easy to operate.
3. Large data storage space, which can store more than 200,000.00 records.
4. For the special design of fast test, a complete amplification analysis can be completed within 30 minutes.
5. USB2.0 supports usb disk to store data. WIFI supports remote data transfer.
6. Android system, user-friendly operation interface, intuitive and simple.
7. Real-time display of various data during the operation of the instrument.
8. After the test program is finished, the test data can be analyzed directly.
9. Sample capacity: 8 × 0.1mL/0.2mL centrifuge tube (5–100uL) 16 × 0.1mL/0.2mL centrifuge tube (5–100uL), 8-strip tube is recommended.

## YS-qPCR-1 Basic Parameters and Performance Indicators

Sample size	2 × 8, 16 test wells, 0.2mL tube (30-100 ul), 8-strip tube with 8-strip cap is recommended
Reaction system	10-10 <sup>10</sup> Copies
Fluorescent dye	F1:FAM、SYBR GreenI etc. F2: HEX、VIC、JOE etc. F3: ROX、TEXAS RED etc. F4: Cy5 etc.
Full-plate fluorescence detection time	within 2S
Temperature range	10-100°C
Temperature uniformity	±0.1°C (@58°C)
Temperature accuracy	±0.1°C (@58°C)
Heating rate (average)	≥8.0°C/s
Heating rate(maximum)	≥10.5°C/s
Cooling rate (average)	≥5.0°C/s
Cooling rate (maximum)	≥7.5°C/s
Hot lid temperature range	30-120°C
Repeatability of fluorescence intensity test	CV≤0.5%
Sample test repeatability	CV≤1%
Sample linearity	Linear regression coefficient R ≥ 0.98
Fluorescence linearity	Linear regression coefficient R ≥ 0.99
Instrument communication interface	Network port / serial port
Input power	100-240VAC 50/60Hz Max 800VA
Dimensions	380×300×185mm(Outer box size: 520×410×360mm)
Net weight	9.8kg

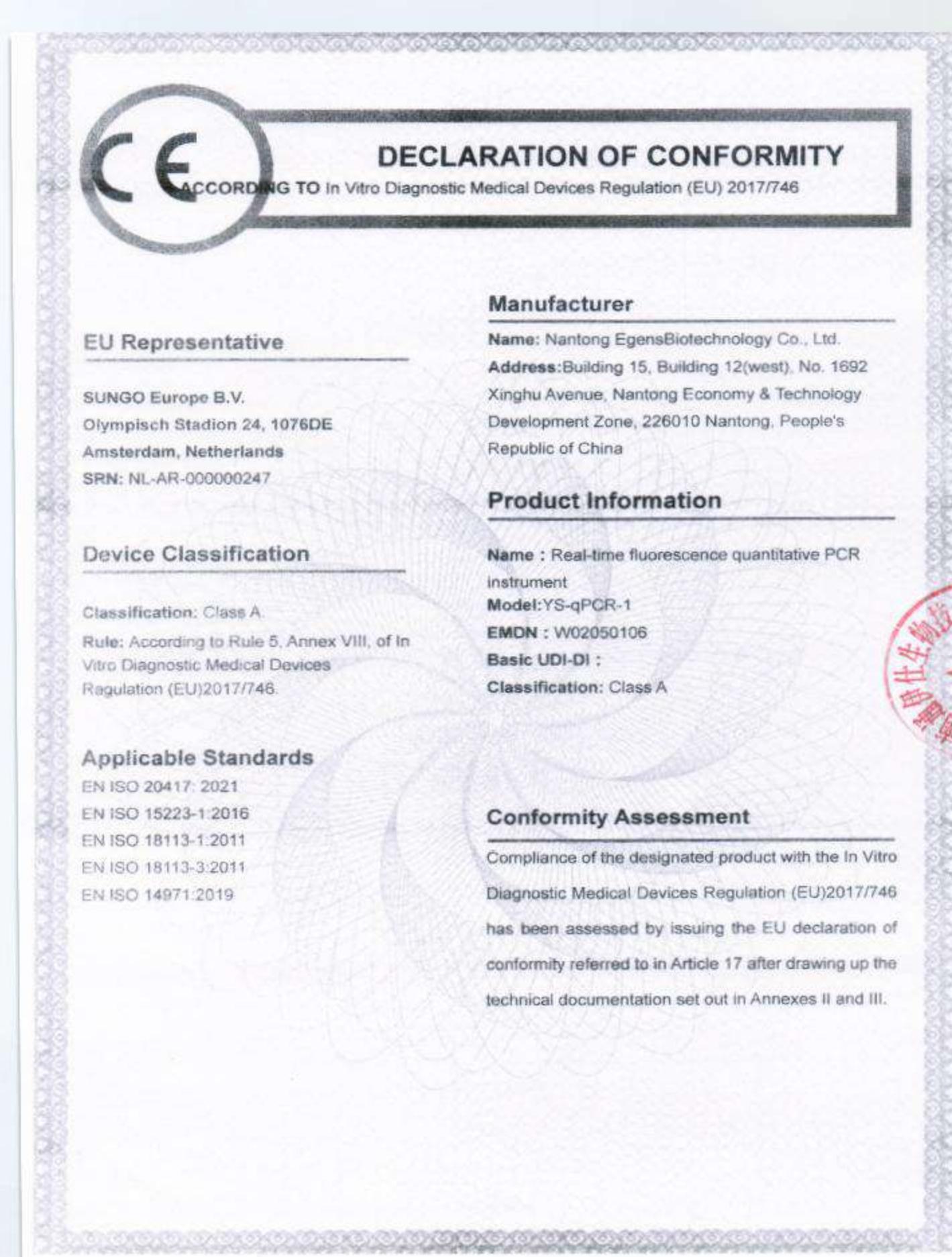
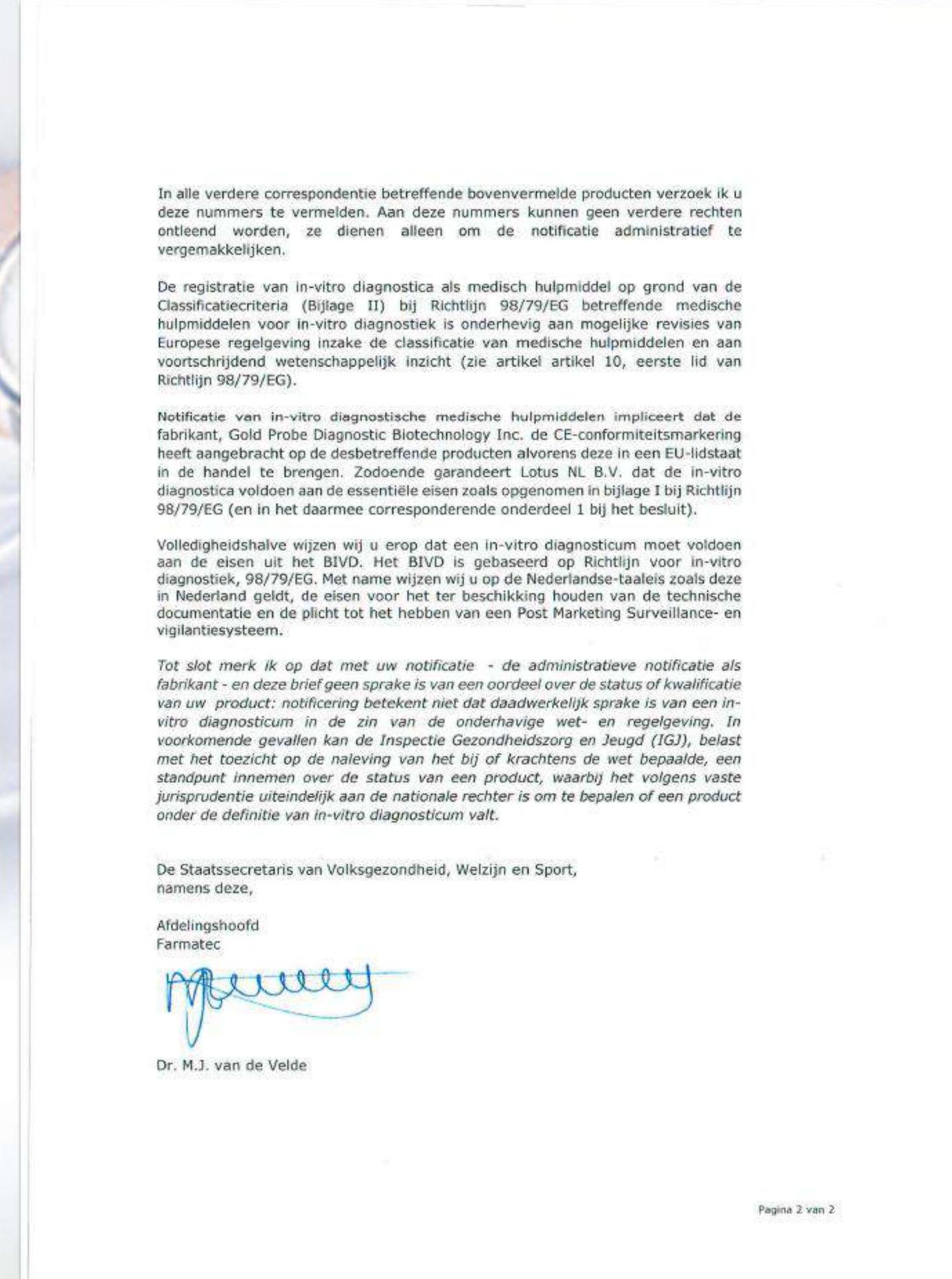
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Manufacturer:  

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# CE certification



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