

# Real-Time RT-PCR for COVID-19 Detection

## 1) Swab Collection Tubes & DNA/RNA Shield



DNA/RNA Shield Collection tubes with swabs are a general purpose collection method for molecular-based applications. Many sample types can be collected with these swab collection tubes including from the mouth, nose, throat, and wherever a swab may be deemed appropriate per application.



DNA/RNA Shield reagent is a DNA and RNA stabilization solution for nucleic acids in any biological sample.

### Order Information

| Product No. | Brand         | Description  | Packaging Size | Price (Rp) |
|-------------|---------------|--|----------------|------------|
| R1109       | Zymo Research | DNA/RNA Shield™ Collection Tube w/ Swab (2ml fill) | 50 packs       | 8,800,000  |
| R1100-250   | Zymo Research | DNA/RNA Shield                                     | 250 mL         | 6,350,000  |

## 2) Nucleic Acid Extraction Kits



The Quick- RNA Viral Kits are viral RNA purification kits that provide for rapid isolation of high-quality viral RNA from a wide range of biological sources.



The Viral Nucleic Acid Extraction Kit II was designed specifically for efficient purification of viral DNA and viral RNA from cell-free samples such as serum, plasma, body fluids and the supernatant of viral infected cell cultures.

Thermo Scientific GeneJET Viral DNA and RNA Purification Kit is designed for rapid and efficient purification of high quality viral nucleic acids from various human and mammalian liquid samples, and is compatible with common sample preservatives like EDTA, citrate, and heparin.

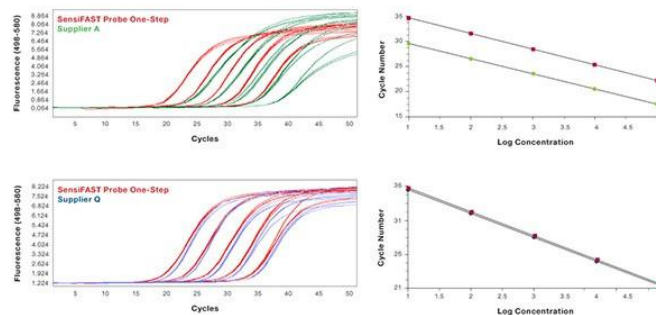
### Order Information

| Product No. | Brand             | Description                            | Packaging Size | Price (Rp) |
|-------------|-------------------|--|----------------|------------|
| R1035       | Zymo Research     | Quick-RNA Viral Kit                    | 200 preps      | 11,400,000 |
| K0821       | Thermo Scientific | GeneJET Viral DNA/RNA Purification Kit | 50 preps       | 4,500,000  |
| VR300       | Geneaid           | Viral Nucleic Acid Extraction Kit II   | 300 preps      | 8,000,000  |

### 3) Master Mixes if using ONE-STEP REAL-TIME RT-PCR

#### Product Highlights

- Sensitive – optimized buffer formulation delivers reliable quantification from even very low copy number RNA targets
- Reproducible – consistent results between technical replicates for increased confidence in results
- Robust – reliable detection of RNA targets from a broad range of sample types
- Fast – delivers reproducible, accurate assay results in as little as 40 minutes
- Efficient – excellent performance in multiplex assays
- Specific – antibody-mediated hot-start DNA polymerase minimizes non-specific amplification for improved assay sensitivity and reliability



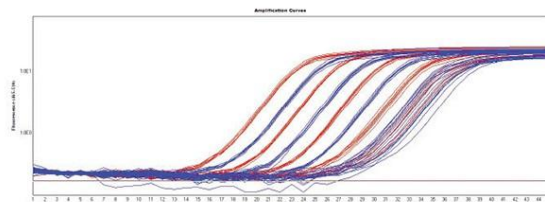
#### Order Information

| Product No. | Brand   | Description                            | Packaging Size | Price (Rp) |
|-------------|---------|--|----------------|------------|
| BIO-76001   | Bioline | SensiFAST Probe No-ROX One-Step Kit    | 100 reactions  | 2,500,000  |
| BIO-76005   | Bioline | SensiFAST Probe No-ROX One-Step Kit    | 500 reactions  | 6,660,000  |
| BIO-78001   | Bioline | SensiFAST Probe Lo-ROX One-Step Kit    | 100 reactions  | 2,500,000  |
| QRZ-101     | Toyobo  | THUNDERBIRD Probe One-step qRT-PCR Kit | 100 reactions  | 3,400,000  |

### 4) Master Mixes if using TWO-STEPS REAL-TIME RT-PCR

#### Product Highlights

- Efficient – high-target affinity, coupled with a novel TransAmp buffer system for improved yield of full-length cDNA
- Unbiased – optimized mix of random hexamers and anchored oligo dT primers for complete 5' to 3' RNA sequence representation
- Sensitive – lower Ct values from a broad range of input cDNA concentrations, enabling accurate detection of very low-copy targets
- Robust – reliable reverse transcription under challenging conditions, including complex templates and in the presence of inhibitors
- Fast – high-yield reverse transcription from a very broad of targets in as little as 5 minutes



#### Order Information

| Product No. | Brand   | Description                  | Packaging Size | Price (Rp) |
|-------------|---------|------------------------------|----------------|------------|
| BIO-65053   | Bioline | SensiFAST cDNA Synthesis Kit | 50 reactions   | 3,560,000  |
| BIO-65054   | Bioline | SensiFAST cDNA Synthesis Kit | 250 reactions  | 7,920,000  |
| BIO-86005   | Bioline | SensiFAST Probe no-ROX Kit   | 500 reactions  | 2,650,000  |
| BIO-86020   | Bioline | SensiFAST Probe No-ROX Kit   | 2000 reactions | 6,640,000  |

## 5) Panel Primer & Probe & Positive Control

IDT Research Use Only Kits

- RUO kit includes all published assays in individual tubes. Available in 2 reaction sizes, which are premixed to the CDC's recommended working concentration and delivered in IDTE (1X TE buffer) pH 7.5. Shipped at ambient temperature.

GenScript SARS-CoV-2 qRT-PCR detection assay

- The primers and probes in this assay are designed based on the gene sequences of ORF1ab gene, N gene, RdRP gene and E gene in 2019 novel coronavirus (SARS-CoV-2) genome. The dual-labeled probes can hybridize specifically with a part of the gene sequences. During PCR, the 5' fluorophore from the probe will be digested by Taq polymerase via its 5'-3' exonuclease activity and released from 3' quencher group, and its fluorescence can then be measured quantitatively by qPCR instrument.

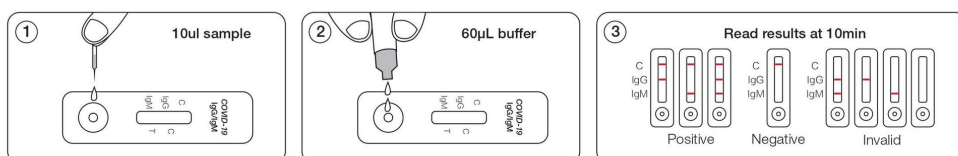
## Order Information

| Product No. | Brand     | Description  | Packaging Size | Price (Rp) |
|-------------|-----------|--|----------------|------------|
| 10006605    | IDT       | 2019-nCoV RUO Kit, 100 rxn   | 100 reactions  | 2,300,000  |
| 10006713    | IDT       | 2019-nCoV RUO Kit, 500 rxn   | 500 reactions  | 3,600,000  |
| 10006625    | IDT       | 2019-nCoV_N_Positive Control   |                | 3,000,000  |
| 10006626    | IDT       | Hs_RPP30 Positive Control  |                | 2,500,000  |
| SC1618-E    | GenScript | SARS-CoV-2 qPCR detection 1-plex assay-E (including PCR Mix & Positive Control)    | 100 reactions  | 13,000,000 |
| SC1618-RdRP | GenScript | SARS-CoV-2 qPCR detection 1-plex assay-RdRP (including PCR Mix & Positive Control) | 100 reactions  | 13,000,000 |

## 6) 2019-nCoV IgG/IgM Rapid Test (LFA)



The 2019-nCoV IgG/IgM Rapid Test is based on rapid immunochromatographic test. It is used for the detection of 2019 Novel Coronavirus (2019-Ncov) IgG and IgM antibody in human whole blood/serum/plasma, offering a diagnostic reference for COVID-19. The kit is intended for professional use only.



## Order Information

| Product No. | Brand     | Description                        | Packaging Size | Price (Rp) |
|-------------|-----------|------------------------------------|----------------|------------|
| DNK-1419-1  | Dynamiker | 2019-nCoV IgG/IgM Rapid Test (LFA) | 40 tests       | 4,100,000  |

\*All prices exclude VAT 10%

[www.ptgenetika.com](http://www.ptgenetika.com)



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