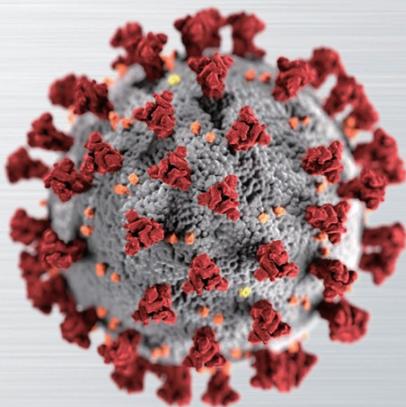


BIO ● TECHNOLOGY  
**boditech**

Total solutions for the  
diagnosis of **COVID-19**



Boditech Med Inc.

# COVID-19 outbreak

SARS-CoV-2 (COVID19), the newly identified coronavirus 2019-nCoV, causes pneumonia so that prevention and control of the infection has become highly required. So far, tens of millions have been infected and the following huge economic impact shakes global medical and social fundamentals. Since symptoms become rapidly severe without proper treatment after the onset of illness, early diagnosis of the virus infection is quite crucial.

Boditech Med Inc. is a leader in the *in-vitro* diagnostic area and provides total solution of COVID-19 diagnosis that can be used in any environment. Boditech Med manufactures 65 different kinds of diagnostic cartridges and 9 instruments to be used in the field such as cardiac, diabetes, hormones, infection, so on. In addition, we now provide;

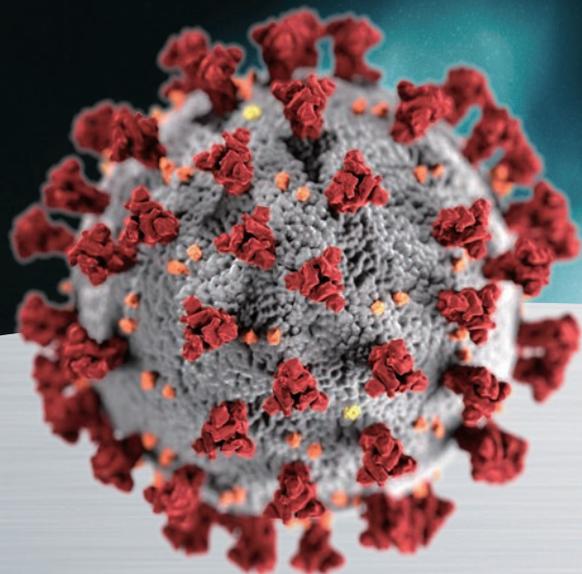
- COVID-19 quick antigen/antibody kits optimized for on-site diagnosis with high accuracy
- COVID-19/Influenza antigen combo test for distinguishing COVID-19 and Influenza in symptomatic patients
- Molecular diagnostics for confirmatory testing
- Nucleic acid extraction kits essential for molecular diagnostic pretreatment
- Interleukin-6 test for the identification of patients with confirmed COVID-19 diseases who could be a high risk
- D-Dimer/Ferritin/PCT as biomarkers of disease severity in COVID-19 patients

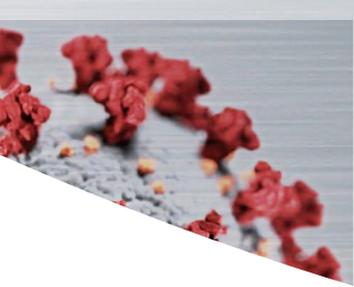
Boditech Med Inc. will do its best to prevent and diagnose the COVID-19.



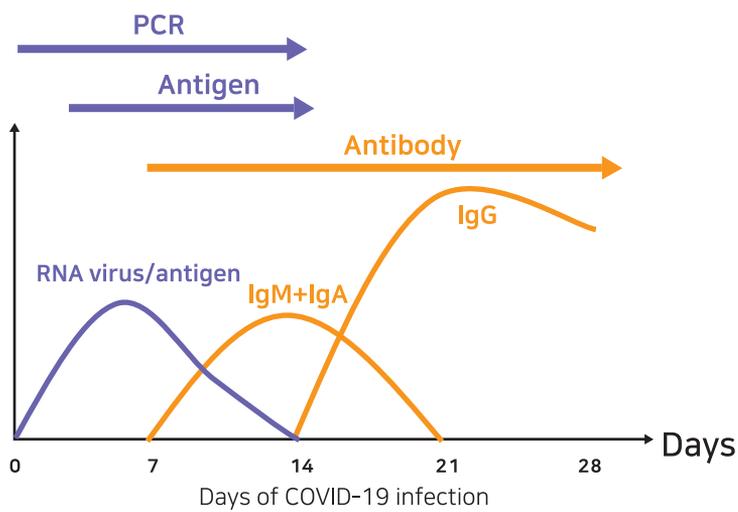
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## Product selection guide for the diagnosis of COVID-19 infection



### PCR



NuActor ExAmplar

### Antigen



ichroma™ / AFIAS

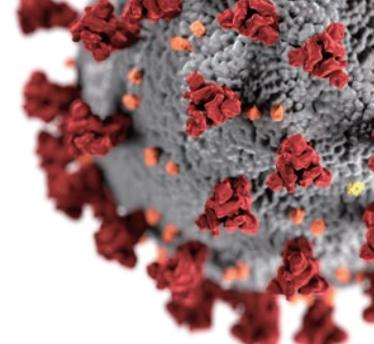
### Antibody



ichroma™ / AFIAS



Total solutions for the diagnosis of **COVID-19**



## List of products for the diagnosis of COVID-19

| Category                         | Product                                   | Catalog No. | Storage    |
|----------------------------------|---|-------------|------------|
| PCR                              | ExAmpliar COVID-19 Real-time PCR kit      | UFPK-4      | 2 - 25 °C  |
|                                  | ExAmplex Influenza A/B SARS-CoV-2 PCR kit | UFPK-6      | 2 - 8 °C   |
|                                  | ExAmplex SARS-CoV-2 3 gene PCR kit*       | -           | 2 - 8 °C   |
| Nucleic acid extraction          | NuActor Viral RNA extraction kit          | UFPK-1      | 15 - 35 °C |
| COVID-19 Antigen                 | ichroma™ COVID-19 Ag                      | CFPC-115    | 2 - 30 °C  |
|                                  | AFIAS COVID-19 Ag                         | SMFP-71     | 4 - 30 °C  |
| COVID-19 Antibody                | ichroma™ COVID-19 Ab                      | CFPC-114    | 2 - 30 °C  |
|                                  | AFIAS COVID-19 Ab                         | SMFP-72     | 4 - 30 °C  |
| COVID-19/Influenza Antigen Combo | ichroma™ COVID-19/Flu Ag Combo            | CFPC-117    | 2 - 30 °C  |
|                                  | AFIAS COVID-19/Flu Ag Combo               | SMFP-77     | 2 - 30 °C  |

\* Coming soon

## List of COVID-19 related products

| Category      | Product           | Catalog No. | Storage                              |
|---------------|-------------------|-------------|--------------------------------------|
| Interleukin-6 | ichroma™ IL-6     | CFPC-116    | 4 - 30 °C                            |
|               | AFIAS IL-6        | SMFP-74     | 2 - 8 °C                             |
| D-Dimer       | ichroma™ D-Dimer  | CFPC-25     | Cartridge: 4 - 30 °C<br>DB: 2 - 8 °C |
|               | AFIAS D-Dimer     | SMFP-4      | 2 - 8 °C                             |
| Ferritin      | ichroma™ Ferritin | CFPC-32     | Cartridge: 4 - 30 °C<br>DB: 2 - 8 °C |
|               | AFIAS Ferritin    | SMFP-23     | 2 - 8 °C                             |
| PCT           | ichroma™ PCT Plus | CFPC-64     | Cartridge: 4 - 30 °C<br>DB: 2 - 8 °C |
|               | AFIAS PCT Plus    | SMFP-32     | 2 - 8 °C                             |

## Instruments

| Category                | Product     | Catalog No. |
|-------------------------|-------------|-------------|
| PCR machine             | ExAmpliar   | FPRR030     |
| Nucleic acid extraction | NuActor     | FPRR032     |
| ichroma™                | ichroma™ II | FPRR021     |
|                         | ichroma™ M2 | FPRR037     |
| AFIAS                   | AFIAS-6     | FPRR020     |
|                         | AFIAS-1     | FPRR019     |

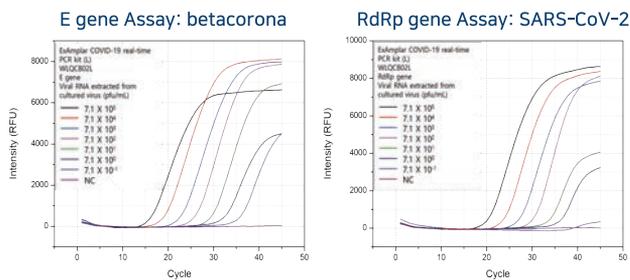
# ExAmplar COVID-19 real-time PCR kit (L)



- Easy shipping & delivery (No dry ice needed)
- Ambient temperature storage (2-25 °C)
- Fast, Small and Cost Effective
- Exclusive Reagent (closed system)
- 8 tests/run (3 controls + 5 samples)
- 30 mins (DNA)/45 mins (RNA)
- Size : 20 cm × 24 cm × 18 cm
- Fully lyophilized, ready-to-use real-time PCR kit
- Open kit: test with ExAmplar or any conventional real-time PCR machines
- Controls included
- Sensitivity to <20 copies/rxn



## Performance Data Analytical Sensitivity



|           | Limit of Detection | 95% confidence interval (CI) |
|-----------|--------------------|------------------------------|
| E gene    | 5.2 copies/μL      | 4.2 ~ 7.2 copies/μL          |
| RdRp gene | 15.1 copies/μL     | 12.5 ~ 19.6 copies/μL        |

## Components

| Components                  | Quantity                |
|-----------------------------|-------------------------|
| Reaction tube (lyophilized) | 12 tubes (48 tests/kit) |
| Resuspension buffer         | 2 vials (1.5 mL x 2)    |
| Positive control            | 1 vial                  |
| Negative control            | 1 vial                  |

## Ordering Information

| Product                                 | Cat. No. |
|---|----------|
| ExAmplar                                | FPRR030  |
| ExAmplar COVID-19 real-time PCR kit (L) | UFPK-4   |

# NuActor Automatic Extractor

- Extraction Time < 15 mins
- From Sample 200 μL
- Exclusive Cartridge System
- Magnetic bead method
- Full Automated
- UV sterilization
- Size : 24 cm × 24 cm × 26 cm



## NuActor Viral RNA extraction kit



## Components

| Components              | Quantity  |
|-------------------------|-----------|
| Extraction cartridges   | 12 ea     |
| 2X lysis buffer (20 mL) | 2 bottles |
| Disposable strip-cap    | 12 ea     |

## Ordering Information

| Product                          | Cat. No. |
|----------------------------------|----------|
| NuActor                          | FPRR032  |
| NuActor Viral RNA extraction kit | UFPK-1   |

# ExAmplex

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

- **Multiplex**                      Single tube detection (Flu A, Flu B, COVID-19)
- **Ready-to-use**                Add water & RNA extract and RUN
- **Lyophilized**                    Ambient temp. shipping (no dry ice)



### • Compatible instruments



Bio-Rad  
'CFX96' Real Time PCR



Thermo Fisher  
'ABI7500 Fast' Real Time PCR

### • Components

| Components                  | Quantity                |
|-----------------------------|-------------------------|
| Reaction tube (lyophilized) | 12 tubes (96 tests/kit) |
| Nuclease-free water         | 2 vials (1.5 mL x 2)    |
| Positive control            | 1 vial (dried pellet)   |
| Instructions for use        | 1 ea                    |

### • Ordering Information

| Product                                      | Cat. No.    |
|--|-------------|
| ExAmplex<br>Influenza A/B SARS-CoV-2 PCR kit | UFPK-6      |
| ExAmplex<br>SARS-CoV-2 3 gene PCR kit        | Coming soon |

### • Clinical Performance (ExAmplex Influenza A/B SARS-CoV-2 PCR kit)

| Influenza A virus                                | Reference (Real-Q Flu A, B Detection Kit) |            |            |
|--|---|------------|------------|
|  | Positive                                  | Negative   | Total      |
| Positive   | 33  | 0          | 33         |
| Negative   | 0   | 118        | 118        |
| <b>Total</b>                                     | <b>33</b>                                 | <b>118</b> | <b>151</b> |
| <b>ExAmplex Influenza A/B SARS-CoV-2 PCR Kit</b> |   |            |            |
| Sensitivity                                      | 100% (95%CI: 87.0% ~ 100%)                |            |            |
| Specificity                                      | 100% (95%CI: 96.1% ~ 100%)                |            |            |
| PPV  | 100% (95%CI: 87.0% ~ 100%)                |            |            |
| NPV  | 100% (95%CI: 96.1% ~ 100%)                |            |            |

| SARS-CoV-2                                       | Reference (STANDARD M nCoV Real-Time Detection kit) |            |            |
|--|---|------------|------------|
|  | Positive  | Negative   | Total      |
| Positive   | 31  | 0          | 31         |
| Negative   | 0   | 120        | 120        |
| <b>Total</b>                                     | <b>31</b>   | <b>120</b> | <b>151</b> |
| <b>ExAmplex Influenza A/B SARS-CoV-2 PCR Kit</b> |   |            |            |
| Sensitivity                                      | 100% (95%CI: 86.3% ~ 100%)                          |            |            |
| Specificity                                      | 100% (95%CI: 96.1% ~ 100%)                          |            |            |
| PPV  | 100% (95%CI: 86.3% ~ 100%)                          |            |            |
| NPV  | 100% (95%CI: 96.1% ~ 100%)                          |            |            |

| Influenza B virus                                | Reference (Real-Q Flu A, B Detection Kit) |            |            |
|--|---|------------|------------|
|  | Positive                                  | Negative   | Total      |
| Positive   | 35  | 0          | 35         |
| Negative   | 0   | 116        | 116        |
| <b>Total</b>                                     | <b>35</b>                                 | <b>116</b> | <b>151</b> |
| <b>ExAmplex Influenza A/B SARS-CoV-2 PCR Kit</b> |   |            |            |
| Sensitivity                                      | 100% (95%CI: 87.7% ~ 100%)                |            |            |
| Specificity                                      | 100% (95%CI: 96.0% ~ 100%)                |            |            |
| PPV  | 100% (95%CI: 87.7% ~ 100%)                |            |            |
| NPV  | 100% (95%CI: 96.0% ~ 100%)                |            |            |

### • Analytical sensitivity (LOD)

Influenza A : 4.96 cp/rxn (95% CI 3.11~7.92 cp/rxn)

Influenza B : 34.06 cp/rxn (95% CI 25.52~45.44 cp/rxn)

SARS-CoV-2 : 6.79 cp/rxn (95% CI 3.46~13.32 cp/rxn)

• Evaluation performed in U2bio clinical laboratory, Korea

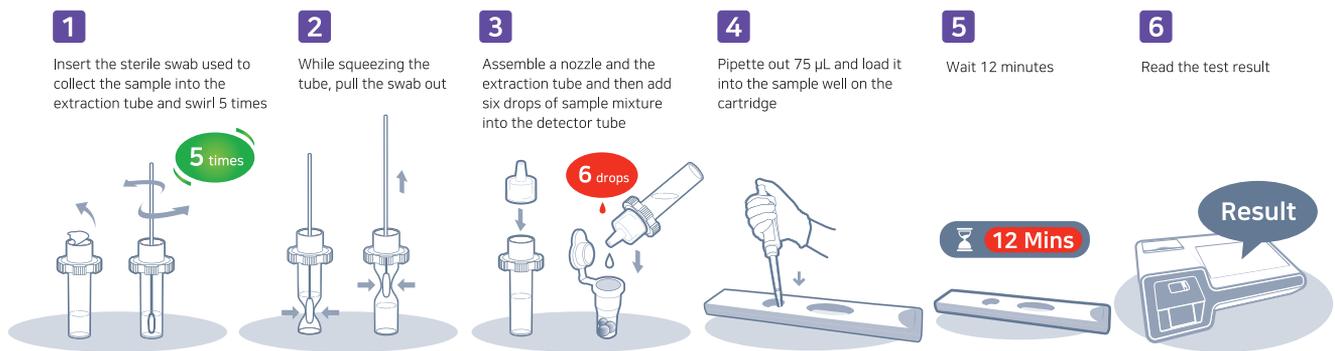
# ichroma™ COVID-19 Ag

ichroma™ COVID-19 Ag is a fluorescence Immunoassay (FIA) for the qualitative detection of novel coronavirus (SARS-CoV-2, 2019-nCoV) in a human nasopharyngeal swab. It is helpful as an aid in the screening of early mild, asymptomatic, or acute patients for identification of 'Novel Coronavirus' infection.

\* For *in-vitro* diagnostic use only.



## • Test procedure



## • Components

- Cartridge
- Detector tube
- Extraction tube
- Nozzle
- ID Chip



## • Ordering Information

| Product              | Cat. No. |
|----------------------|----------|
| ichroma™ COVID-19 Ag | CFPC-115 |
| ichroma™ II Reader   | FPRR021  |
| ichroma™ M2          | FPRR037  |

\* Note. A nylon swab is excluded from the components of the cartridge box.

## • Clinical performance

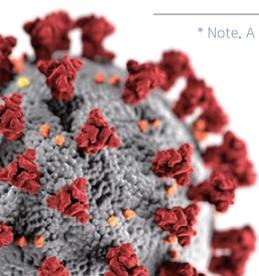
|                      |          | RT-PCR   |          |       |
|----------------------|----------|----------|----------|-------|
|                      |          | Positive | Negative | Total |
| ichroma™ COVID-19 Ag | Positive | 21       | 2        | 23    |
|                      | Negative | 3        | 55       | 58    |
|                      | Total    | 24       | 57       | 81    |

- Clinical sensitivity: 87.5 %
- Clinical specificity: 96.5 %

## • Specification

| Product name           | ichroma™ COVID-19 Ag       |
|------------------------|----------------------------|
| Assay type             | TRFLFA*, COVID-19 Antigen  |
| Sample type            | Nasopharyngeal swab        |
| Sample prep/extraction | Collecting with nylon swab |
| Target                 | COVID-19 Antigen           |
| Platform               | ichroma™ II Reader         |
| Unit                   | 25 kit/box                 |

\* TRFLFA: Time-resolved fluorescent lateral flow assay



# AFIAS COVID-19 Ag

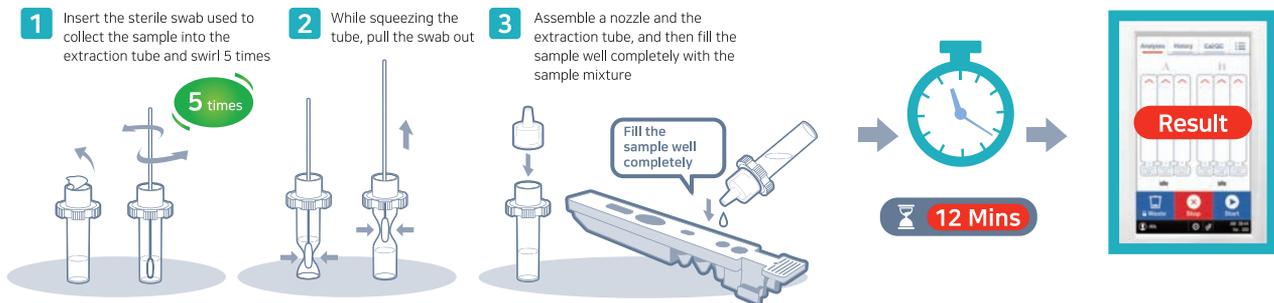
AFIAS COVID-19 Ag is an automatic fluorescence Immuno assay (FIA) for the qualitative detection of novel corona virus (eg, SARS-CoV-2, 2019-nCoV) in a human nasopharyngeal swab. It is useful as an aid in management and monitoring of SARS-CoV-2 infection (COVID-19).

\* For *in-vitro* diagnostic use only.



## • Test procedure

### 3 simple steps



## • Components

- Cartridge
- Pipette tip for operation
- Extraction tube
- Nozzle
- ID Chip



## • Ordering Information

| Product           | Cat. No. |
|-------------------|----------|
| AFIAS COVID-19 Ag | SMFP-71  |
| AFIAS-1 Reader    | FPRR019  |
| AFIAS-6 Reader    | FPRR020  |

\* Note. A nylon swab is excluded from the components of the cartridge box.

## • Clinical performance

|                      |          | RT-PCR   |          |       |
|----------------------|----------|----------|----------|-------|
|                      |          | Positive | Negative | Total |
| AFIAS<br>COVID-19 Ag | Positive | 21       | 2        | 23    |
|                      | Negative | 3        | 55       | 58    |
|                      | Total    | 24       | 57       | 81    |

- Clinical sensitivity: 87,5 %
- Clinical specificity: 96,5 %

## • Specification

| Product name           | AFIAS COVID-19 Ag          |
|------------------------|----------------------------|
| Assay type             | TRFLFA*, COVID-19 Antigen  |
| Sample type            | Nasopharyngeal swab        |
| Sample prep/extraction | Collecting with nylon swab |
| Target                 | COVID-19 Antigen           |
| Platform               | AFIAS 1/ 6 (Automated)     |
| Unit                   | 24 kit/box                 |

\* TRFLFA: Time-resolved fluorescent lateral flow assay

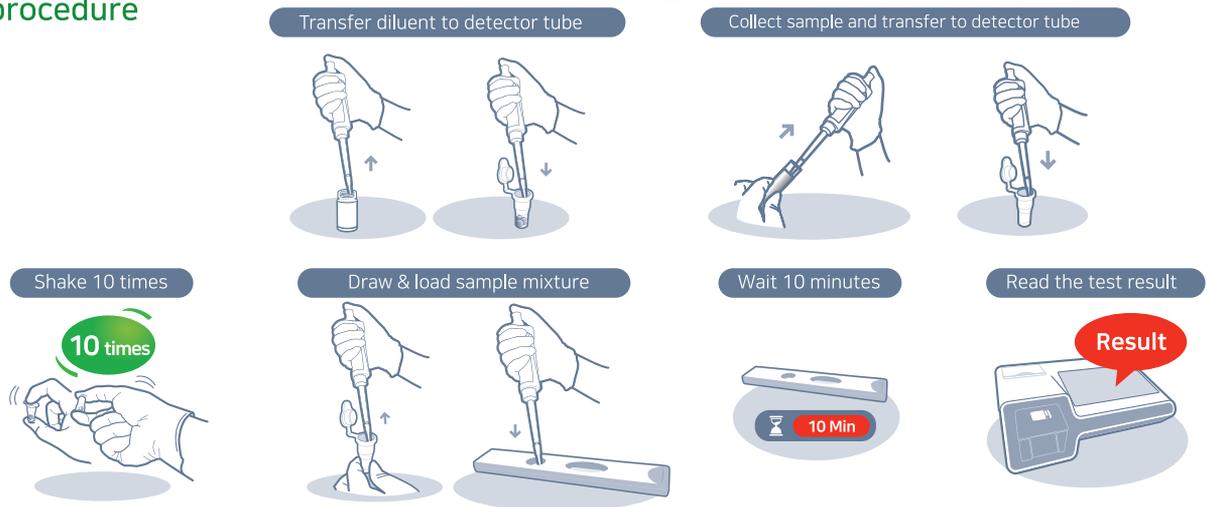
# ichroma™ COVID-19 Ab

ichroma™ COVID-19 Ab is a fluorescence Immunoassay (FIA) for the qualitative detection of novel coronavirus (SARS-CoV -2, 2019-nCoV) in human whole blood/serum/plasma. It is helpful as an aid in the screening of early mild, asymptomatic, or acute patients for identification of 'Novel Coronavirus' infection.

\* For *in vitro* diagnostic use only.



## • Test procedure



## • Components

- Cartridge
- Detector tube
- Detector diluent
- ID Chip



## • Ordering Information

| Product              | Cat. No. |
|----------------------|----------|
| ichroma™ COVID-19 Ab | CFPC-114 |
| ichroma™ II Reader   | FPRR021  |
| ichroma™ M2          | FPRR037  |

## • Clinical performance

|                      | RT-PCR   |          |       |
|----------------------|----------|----------|-------|
|                      | Positive | Negative | Total |
| ichroma™ COVID-19 Ab | 46       | 0        | 46    |
|                      | 0        | 131      | 131   |
|                      | 2        | 4        | 6     |
| Total                | 48       | 135      | 183   |

- Clinical sensitivity: 95.8 %
- Clinical specificity: 97.0 %

## • Specification

| Product name           | ichroma™ COVID-19 Ab     |
|------------------------|--------------------------|
| Assay type             | TRFLFA*, IgM/IgG         |
| Sample type            | Whole blood/Serum/Plasma |
| Sample prep/extraction | Tube blood               |
| Target                 | Anti-viral IgM/IgG       |
| Platform               | ichroma™ II Reader       |
| Unit                   | 25 kit/box               |

\* TRFLFA: Time-resolved fluorescent lateral flow assay

# AFIAS COVID-19 Ab

AFIAS COVID-19 Ab is an automatic fluorescence Immunoassay (FIA) for the qualitative determination of IgG/IgM antibodies against 'Novel Coronavirus' in human whole blood/serum/plasma. It is helpful as an aid in the screening of early mild, asymptomatic or acute patients for identification of 'Novel Coronavirus (eg, SARS, 2019-nCoV)' infection with high sensitivity. Finger blood (peripheral blood; whole blood) using the unique 'all-in-one' tube, allows the patient's pain to blood collection to be relatively low and suitable for large-scale screening in the field.

\* For *in-vitro* diagnostic use only.



## • Test procedure

### 3 simple steps



Collect capillary blood



Place the C-tip in the cartridge tip hole and insert the cartridge into the slot



Press START to run the test.



## • Components

- Cartridge
- Pipette tip for operation
- C-tip for collecting capillary blood
- ID Chip



## • Ordering Information

| Product           | Cat. No. |
|-------------------|----------|
| AFIAS COVID-19 Ab | SMFP-72  |
| AFIAS-1 Reader    | FPRR019  |
| AFIAS-6 Reader    | FPRR020  |

## • Clinical performance

|                   | RT-PCR   |          |       |
|-------------------|----------|----------|-------|
|                   | Positive | Negative | Total |
| AFIAS COVID-19 Ab | 46       | 0        | 46    |
|                   | 0        | 145      | 145   |
|                   | 2        | 5        | 7     |
|                   | 48       | 150      | 198   |

- Clinical sensitivity: 95.8 %
- Clinical specificity: 96.7 %

## • Specification

| Product name           | AFIAS COVID-19 Ab        |
|------------------------|--------------------------|
| Assay type             | TRFLFA*, IgM/IgG         |
| Sample type            | Whole blood/Serum/Plasma |
| Sample prep/extraction | Finger-prick/Tube blood  |
| Target                 | Anti-viral IgM/IgG       |
| Platform               | AFIAS 1/ 6 (Automated)   |
| Unit                   | 24 kit/box               |

\* TRFLFA: Time-resolved fluorescent lateral flow assay

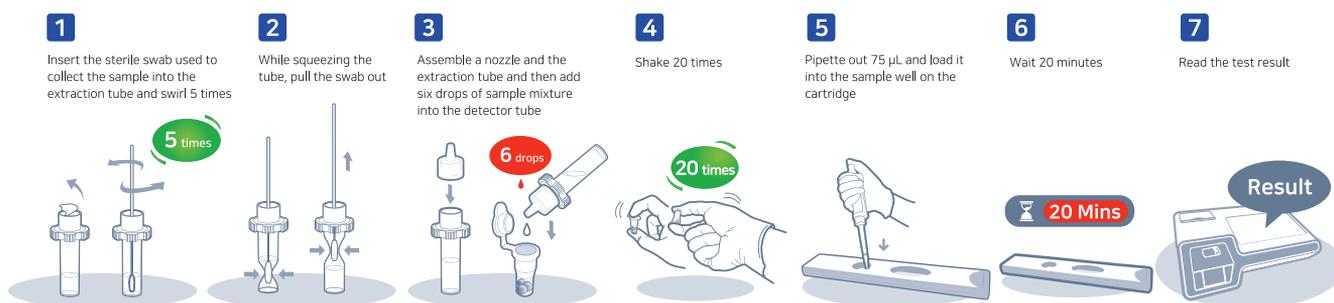
# ichroma™ COVID-19/Flu Ag Combo

- Health officials caution about the twindemic with COVID-19 and Influenza in coming flu season.
- Both COVID-19 and influenza can have common symptoms with various ranges from asymmetric to severe symptoms.
- ichroma™ COVID-19/Flu Ag Combo can be diagnosed for distinguishing of COVID-19 and Influenza in patients with symptoms.

\* For *in-vitro* diagnostic use only.



## • Test procedure



## • Components

- Cartridge
- Detector tube
- Extraction tube
- Nozzle
- ID Chip



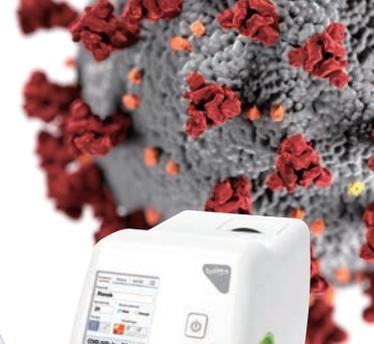
## • Ordering Information

| Product                        | Cat. No. |
|--------------------------------|----------|
| ichroma™ COVID-19/Flu Ag Combo | CFPC-117 |
| ichroma™ II Reader             | FPRR021  |

## • Specification

| Product name       | ichroma™ COVID-19/Flu Ag Combo        |
|--------------------|---------------------------------------|
| Assay type         | TRFLFA*                               |
| Sample type        | Nasopharyngeal swab                   |
| Sample preparation | Collecting with nylon swab            |
| Target             | Antigen for COVID-19, Influenza A & B |
| Platform           | ichroma™ II Reader                    |
| Unit               | 25 kit/box                            |

\* TRFLFA: Time-resolved fluorescent lateral flow assay



# AFIAS COVID-19/Flu Ag Combo

- Health officials caution about the twindemic with COVID-19 and Influenza in coming flu season.
- Both COVID-19 and influenza can have common symptoms with various ranges from asymmetric to severe symptoms.
- AFIAS COVID-19/Flu Ag Combo can be diagnosed for distinguishing of COVID-19 and Influenza in patients with symptoms.

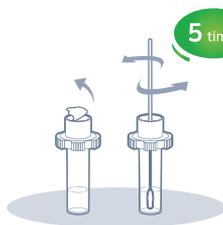
\* For *in-vitro* diagnostic use only.



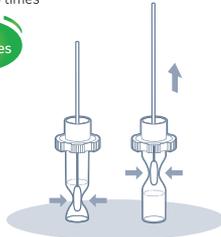
## • Test procedure

### 3 simple steps

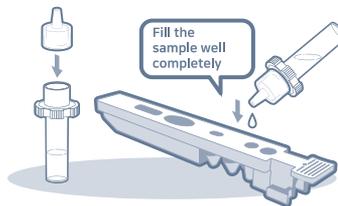
**1** Insert the sterile swab used to collect the sample into the extraction tube and swirl 5 times



**2** While squeezing the tube, pull the swab out



**3** Assemble a nozzle and the extraction tube, and then fill the sample well completely with the sample mixture



## • Components

- Cartridge
- Pipette tip for operation
- Extraction tube
- Nozzle
- ID Chip



## • Ordering Information

| Product                     | Cat. No. |
|-----------------------------|----------|
| AFIAS COVID-19/Flu Ag Combo | SMFP-77  |
| AFIAS-1 Reader              | FPRR019  |
| AFIAS-6 Reader              | FPRR020  |

## • Specification

| Product name       | AFIAS COVID-19/Flu Ag Combo           |
|--------------------|---------------------------------------|
| Assay type         | TRFLFA*                               |
| Sample type        | Nasopharyngeal swab                   |
| Sample preparation | Collecting with nylon swab            |
| Target             | Antigen for COVID-19, Influenza A & B |
| Platform           | AFIAS 1/6 (Automatic)                 |
| Unit               | 24 kit/box                            |

\* TRFLFA: Time-resolved fluorescent lateral flow assay

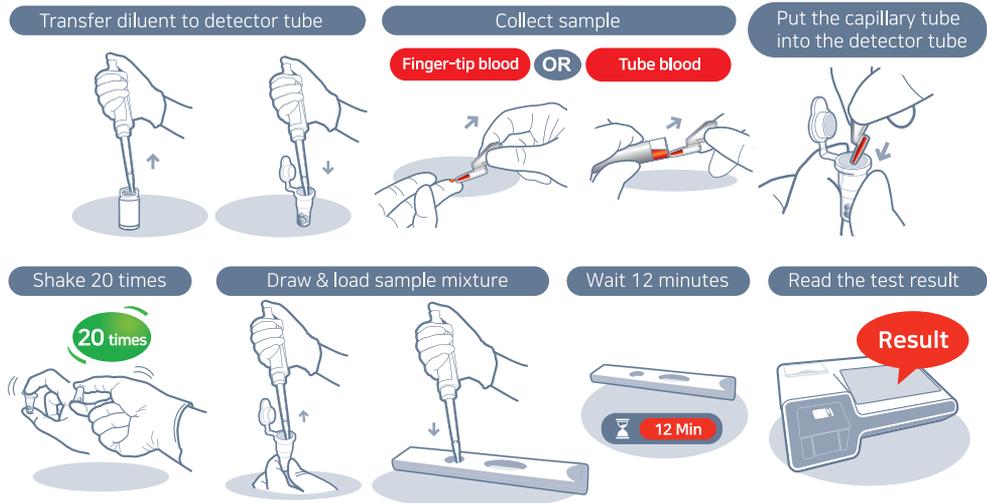
# ichroma™ IL-6

- Interleukin-6 (IL-6) is an early biomarker for acute inflammation to assist in the caring of critically ill patients
- Boditech IL-6 test helps identify severe inflammatory response in patients with confirmed COVID-19.

\* For *in-vitro* diagnostic use only.



## • Test procedure



## • Components

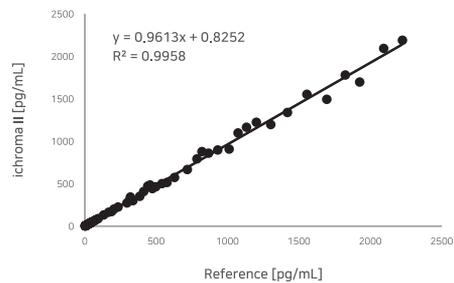
- Cartridge
- Detector tube
- Detector diluent
- Capillary tube
- ID Chip



## • Ordering Information

| Product            | Cat. No. |
|--------------------|----------|
| ichroma™ IL-6      | CFPC-116 |
| ichroma™ II Reader | FPRR021  |

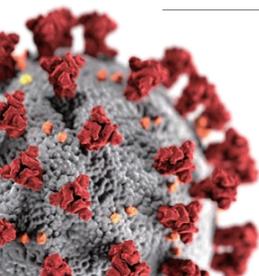
## • Clinical performance



## • Specification

| Product name       | ichroma™ IL-6                   |
|--------------------|---------------------------------|
| Assay type         | TRFLFA*, IL-6                   |
| Sample type        | Whole blood/Serum/Plasma        |
| Sample preparation | Finger or heel prick/Tube blood |
| Target             | IL-6                            |
| Platform           | ichroma™ II Reader              |
| Unit               | 25 kit/box                      |

\* TRFLFA: Time-resolved fluorescent lateral flow assay



# AFIAS IL-6

- Interleukin-6 (IL-6) is an early biomarker for acute inflammation to assist in the caring of critically ill patients
- Boditech IL-6 test helps identify severe inflammatory response in patients with confirmed COVID-19.

\* For *in vitro* diagnostic use only.



## • Test procedure

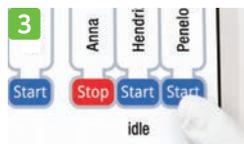
### 3 simple steps



Collect capillary blood



Place the C-tip in the cartridge tip hole and insert the cartridge into the slot



Press START to run the test.



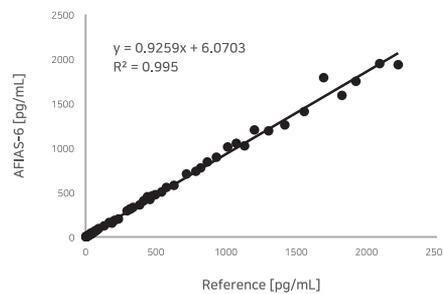
## • Components

- Cartridge
- Pipette tip for operation
- ID Chip

Note. We can provide the C-tip for collecting capillary blood separately.



## • Clinical performance



## • Specification

| Product name       | AFIAS IL-6                      |
|--------------------|---------------------------------|
| Assay type         | TRFLFA*, IL-6                   |
| Sample type        | Whole blood/Serum/Plasma        |
| Sample preparation | Finger or heel prick/Tube blood |
| Target             | IL-6                            |
| Platform           | AFIAS 1/6 (Automatic)           |
| Unit               | 24 kit/box                      |

\* TRFLFA: Time-resolved fluorescent lateral flow assay

## • Ordering Information

| Product        | Cat. No. |
|----------------|----------|
| AFIAS IL-6     | SMFP-74  |
| AFIAS-1 Reader | FPRR019  |
| AFIAS-6 Reader | FPRR020  |

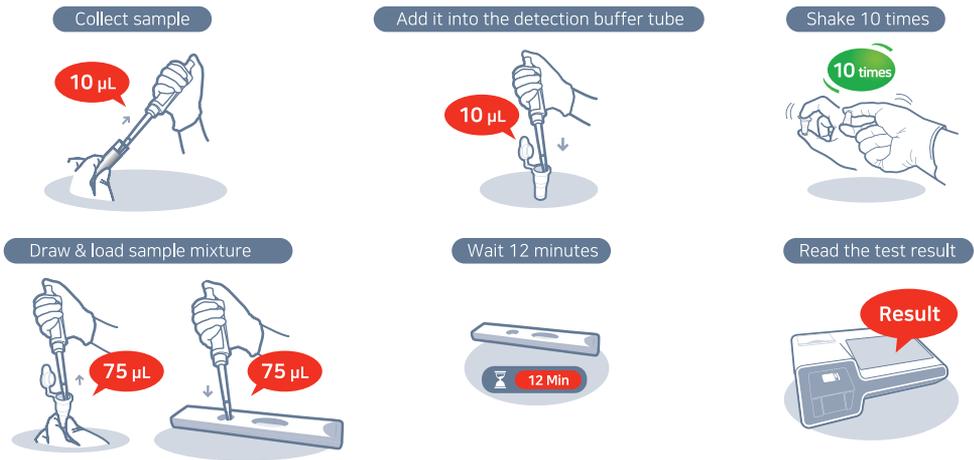
# ichroma™ D-Dimer

- D-Dimer is commonly used to exclude thromboembolic disease in outpatients suspected of having deep venous thrombosis (DVT) and pulmonary embolism (PE).
- D-Dimer is well known to be an important prognostic indicator of heart diseases, its most definitive role is on monitoring post-treatment clinical status and the post-therapeutic evaluation of the patients.
- The Boditech D-Dimer test helps predict in-hospital mortality for COVID-19 patients.

\* For *in vitro* diagnostic use only.



## • Test procedure



## • Components

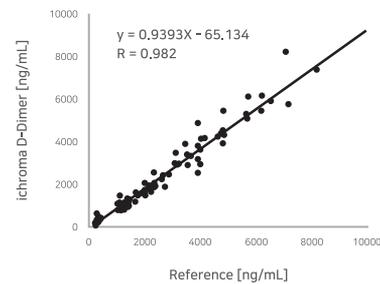
- Cartridge
- Detector tube
- ID Chip



## • Ordering Information

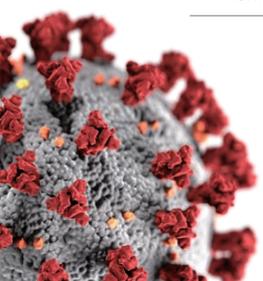
| Product            | Cat. No. |
|--------------------|----------|
| ichroma™ D-Dimer   | CFPC-25  |
| ichroma™ II Reader | FPRR021  |

## • Comparability



## • Specification

| Product name       | ichroma™ D-Dimer                |
|--------------------|---------------------------------|
| Assay type         | Fluorescence lateral flow assay |
| Sample type        | Whole blood / Plasma            |
| Sample preparation | Tube blood                      |
| Target             | D-Dimer                         |
| Platform           | ichroma™ II Reader              |
| Unit               | 25 kit/box                      |



# AFIAS D-Dimer

- D-Dimer is commonly used to exclude thromboembolic disease in outpatients suspected of having deep venous thrombosis (DVT) and pulmonary embolism (PE).
- D-Dimer is well known to be an important prognostic indicator of heart diseases, its most definitive role is on monitoring post-treatment clinical status and the post-therapeutic evaluation of the patients.
- The Boditech D-Dimer test helps predict in-hospital mortality for COVID-19 patients.

\* For *in vitro* diagnostic use only.



## • Test procedure

- 1** Take 100 µL of sample with a pipette and dispense it into the sample well on the cartridge.
- 2** Insert the cartridge fully into the cartridge holder.
- 3** Insert a tip into the tip hole of the cartridge.
- 4** To start the test, tap the 'START' icon on the screen.
- 5** The test result will be displayed on the screen in 12 minutes.

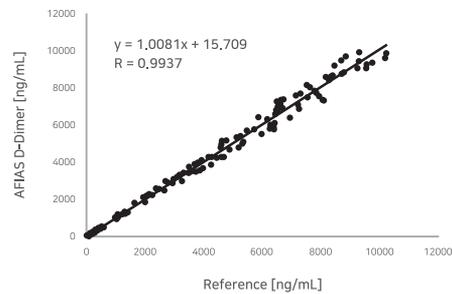


## • Components

- Cartridge
- Pipette tip for operation
- ID Chip



## • Comparability



## • Specification

| Product name       | AFIAS D-Dimer                   |
|--------------------|---------------------------------|
| Assay type         | Fluorescence lateral flow assay |
| Sample type        | Whole blood / Plasma            |
| Sample preparation | Tube blood                      |
| Target             | D-Dimer                         |
| Platform           | AFIAS 1/6 (Automatic)           |
| Unit               | 24 kit/box                      |

## • Ordering Information

| Product        | Cat. No. |
|----------------|----------|
| AFIAS D-Dimer  | SMFP-4   |
| AFIAS-1 Reader | FPRR019  |
| AFIAS-6 Reader | FPRR020  |

\* Note. A nylon swab is excluded from the components of the cartridge box.

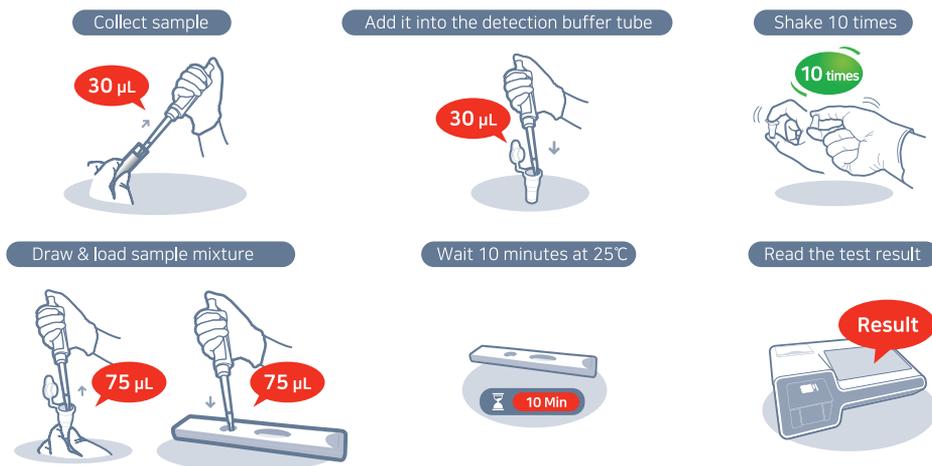
# ichroma™ Ferritin

- Ferritin is the protein that can bind and store reserve iron.
- In the case of COVID-19 infection, the excess production of ferritin can occur from the macrophages through the immunoreaction.
- Ferritin can be a biomarker for the determination of severity of COVID-19 patients.

\* For *in vitro* diagnostic use only.



## • Test procedure



## • Components

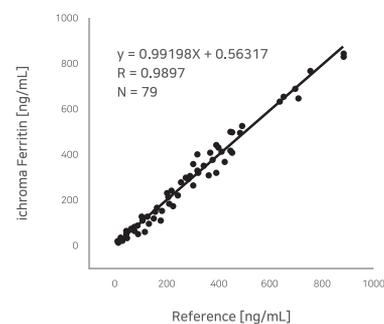
- Cartridge
- Detector tube
- ID Chip



## • Ordering Information

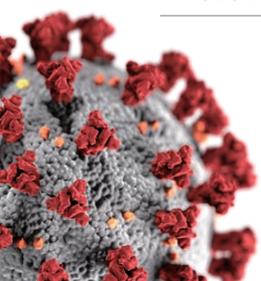
| Product            | Cat. No. |
|--------------------|----------|
| ichroma™ Ferritin  | CFPC-32  |
| ichroma™ II Reader | FPRR021  |

## • Comparability



## • Specification

| Product name       | ichroma™ Ferritin               |
|--------------------|---------------------------------|
| Assay type         | Fluorescence lateral flow assay |
| Sample type        | Serum / Plasma                  |
| Sample preparation | Tube blood                      |
| Target             | Ferritin                        |
| Platform           | ichroma™ II Reader              |
| Unit               | 25 kit/box                      |



# AFIAS Ferritin

- Ferritin is the protein that can bind and store reserve iron.
- In the case of COVID-19 infection, the excess production of ferritin can occur from the macrophages through the immunoreaction.
- Ferritin can be a biomarker for the determination of severity of COVID-19 patients.

\* For *in vitro* diagnostic use only.



## • Test procedure

- 1** Take 100 µL of sample with a pipette and dispense it into the sample well on the cartridge.
- 2** Insert the cartridge fully into the cartridge holder.
- 3** Insert a tip into the tip hole of the cartridge.
- 4** To start the test, tap the 'START' icon on the screen.
- 5** The test result will be displayed on the screen in 10 minutes.



## • Components

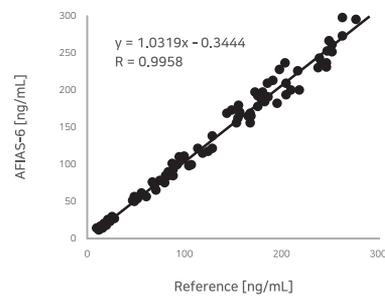
- Cartridge
- Pipette tip for operation
- ID Chip



## • Ordering Information

| Product        | Cat. No. |
|----------------|----------|
| AFIAS Ferritin | SMFP-23  |
| AFIAS-1 Reader | FPRR019  |
| AFIAS-6 Reader | FPRR020  |

## • Comparability



## • Specification

| Product name       | AFIAS Ferritin                  |
|--------------------|---------------------------------|
| Assay type         | Fluorescence lateral flow assay |
| Sample type        | Serum / Plasma                  |
| Sample preparation | Tube blood                      |
| Target             | Ferritin                        |
| Platform           | AFIAS 1/6 (Automatic)           |
| Unit               | 24 kit/box                      |

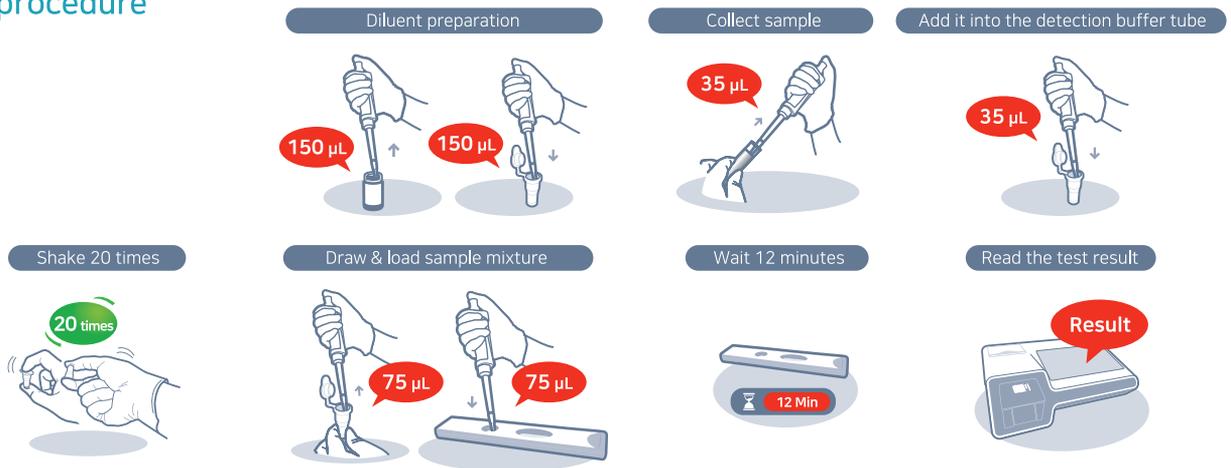
# ichroma™ PCT Plus

- Procalcitonin(PCT) is the biomarker that specifically increases the level when the bacterial infection is caused in human body.
- PCT test can be useful for the exclusion of bacterial infection in COVID-19 patients and the decision of antibiotic treatment in severe COVID-19 patients.
- PCT can be a biomarker for the determination of severity of COVID-19 patients.

\* For *in vitro* diagnostic use only.



## • Test procedure



## • Components

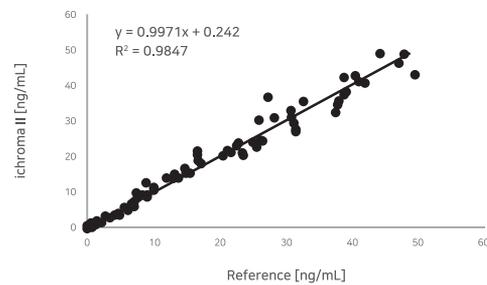
- Cartridge
- Detector tube
- Diluent
- ID Chip



## • Ordering Information

| Product            | Cat. No. |
|--------------------|----------|
| ichroma™ PCT Plus  | CFPC-64  |
| ichroma™ II Reader | FPRR021  |

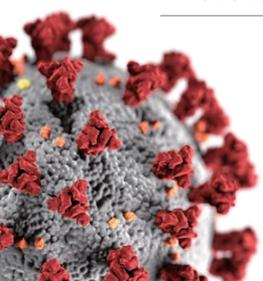
## • Comparability



## • Specification

| Product name       | ichroma™ PCT Plus               |
|--------------------|---------------------------------|
| Assay type         | TRFLFA*                         |
| Sample type        | Whole blood/Serum/Plasma        |
| Sample preparation | Finger or heel prick/Tube blood |
| Target             | Procalcitonin                   |
| Platform           | ichroma™ II Reader              |
| Unit               | 25 kit/box                      |

\* TRFLFA: Time-resolved fluorescent lateral flow assay



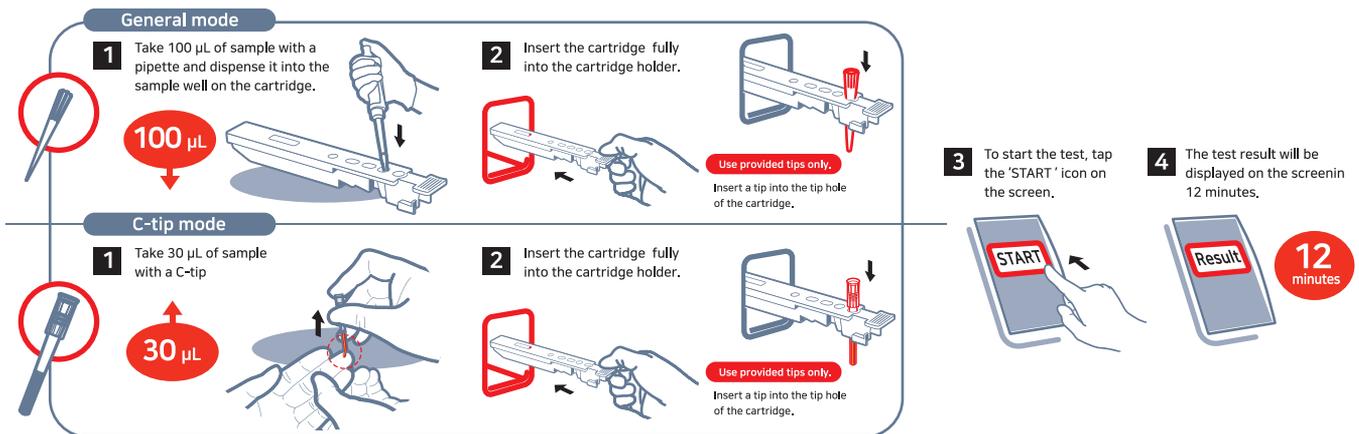
# AFIAS PCT Plus

- Procalcitonin(PCT) is the biomarker that specifically increases the level when the bacterial infection is caused in human body.
- PCT test can be useful for the exclusion of bacterial infection in COVID-19 patients and the decision of antibiotic treatment in severe COVID-19 patients.
- PCT can be a biomarker for the determination of severity of COVID-19 patients.

\* For *in vitro* diagnostic use only.



## • Test procedure



## • Components

- Cartridge
- Pipette tip for operation
- ID Chip

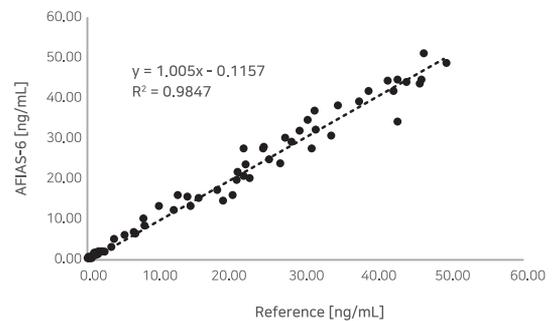
Note. We can provide the C-tip for collecting capillary blood separately.



## • Ordering Information

| Product        | Cat. No. |
|----------------|----------|
| AFIAS PCT Plus | SMFP-32  |
| AFIAS-1 Reader | FPRR019  |
| AFIAS-6 Reader | FPRR020  |

## • Comparability



## • Specification

| Product name       | AFIAS PCT Plus           |
|--------------------|--------------------------|
| Assay type         | TRFLFA*                  |
| Sample type        | Whole blood/Serum/Plasma |
| Sample preparation | Finger-prick/Tube blood  |
| Target             | Procalcitonin            |
| Platform           | AFIAS 1/6 (Automatic)    |
| Unit               | 24 kit/box               |

\* TRFLFA: Time-resolved fluorescent lateral flow assay

# AFIAS-6

Versatile desktop immuno-analyzer

- Automated desktop analyzer
- 30 µL finger prick blood
- 6 different tests on 6 different channels
- Bay random access (2 bays)



## Specifications

### QC/Calibration

COVID-19 controls available

### Interface

7" touch screen  
Built-in thermal printer  
RS 232/USB port/Ethernet/SD card slot  
LIS/HIS compatible

### Memory

5,000 patient results  
5,000 QC results  
500 ID chips  
100 User IDs

### Throughput

Up to 36 tests/hour

### Analyzer

420 x 336 x 293 mm  
15.1 kgs  
100-240V AC, 50-60Hz  
Internal temperature control



# iCHROMA™ II

Advanced compact immuno-analyzer

- QC & system check
- Battery & AC operated
- LIS/HIS connectivity
- Multi-timer function
- USB/LAN, SD Card

## Specifications

### QC/Calibration

System check cartridge  
COVID-19 controls available

### Interface

7" touch screen  
Built-in thermal printer  
USB port/Ethernet/SD card slot  
WiFi dongle (optional)  
LIS/HIS compatible

### Memory

1,000 patient results  
1,000 QC results  
100 User IDs

### Analyzer

276 x 220 x 91 mm  
1.3 kgs  
100-240V AC, 50-60Hz  
Battery (AA×4)



## Specifications

### QC/Calibration

COVID-19 controls available

### Interface

5" touch screen  
Built-in thermal printer  
RS 232/USB port/Ethernet/SD card slot  
LIS/HIS compatible

### Memory

5,000 patient results  
5,000 QC results  
500 ID chips  
100 User IDs

### Throughput

Up to 10 tests/hour

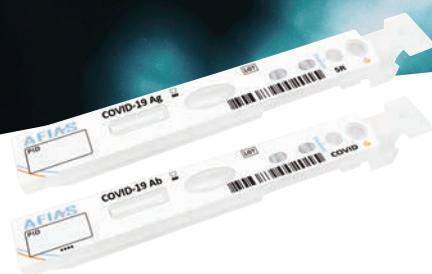
### Analyzer

320 x 204 x 180 mm  
3.9 kgs  
100-240V AC, 50-60Hz  
Internal temperature control

# AFIAS-1

Doctor's reliable associate

- Automated desktop analyzer
- LIS/HIS connectivity
- All-in-one cartridge
- 30 µL finger prick blood
- Walk away function



# iCHROMA M2

Specialized for respiratory solution

- Handheld device
- Economical platform
- TRFLFA system-advanced technique

## Specifications

### QC/Calibration

System check cartridge  
COVID-19 controls available

### Interface

LCD display  
One button operation

### Analyzer

95 x 165 x 55 mm  
300g  
100-240V 50-60Hz, DC 5V/1A



# Respect for Life



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