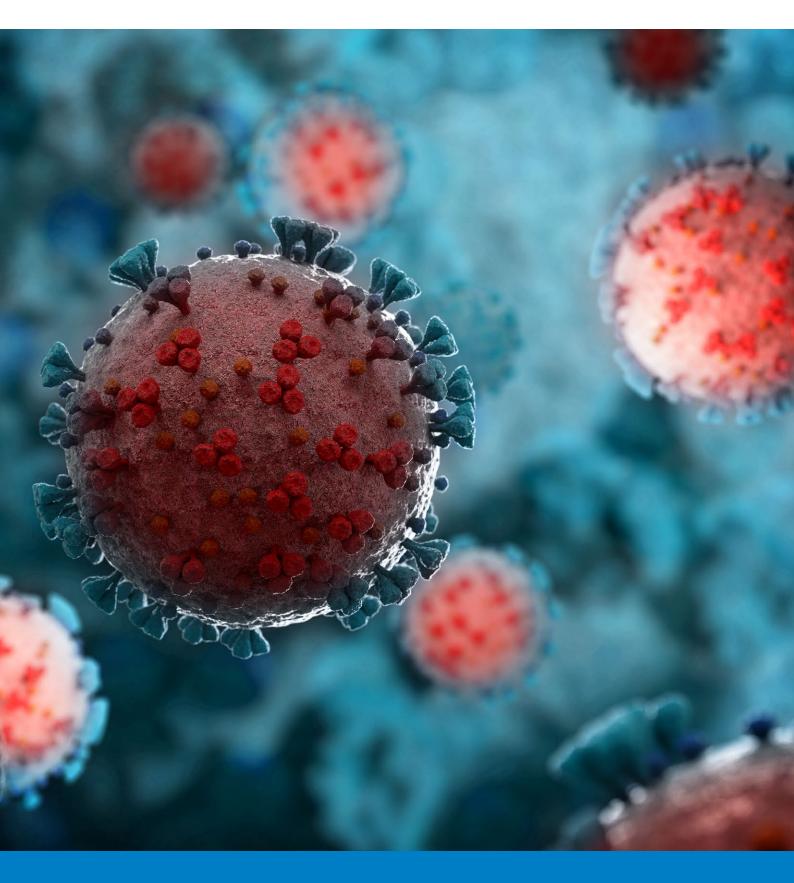
# Pharma**SU**L



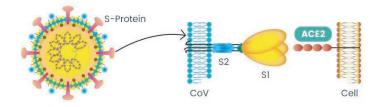
# **COVID-19 RAPID ANTIGEN TEST**



## WHAT IS COVID-19?



Coronaviruses are a large family of viruses that cause respiratory infections. These can range from the common cold to more serious diseases. COVID-19 is a disease caused by a form of coronavirus. The novel coronavirus invades human cells by the specific binding of its spike glycoprotein (ligand) to the ACE2 receptor located on human cellular membrane.



Symptoms of COVID-19 can range from mild illness to pneumonia. Some people will recover easily, and others may get very sick very quickly. People with coronavirus may experience:

#### MOST COMMON SYMPTOMS:

- Fever
- Dry cough
- Tiredness

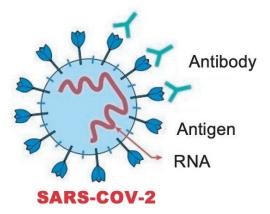
#### LESS COMMON SYMPTOMS:

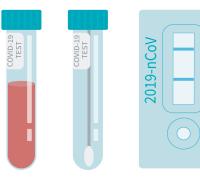
- Aches and pains
- Sore throat
- Diarrhoea
- Conjunctivitis
- Headache
- Loss of taste or smell
- A rash on skin
- Discolouration of fingers/toes



## **CURRENT DIAGNOSTIC METHODS**







#### **ANTIGEN TEST**

Detects the antigen of the virus, indicating the active viral infection

#### **RT-PCR**

Detects the RNA of the virus, indicating the active viral infection

#### ANTIBODY TEST

Detects the antibody generated by immune response after viral infection, indicating the active or past viral infection

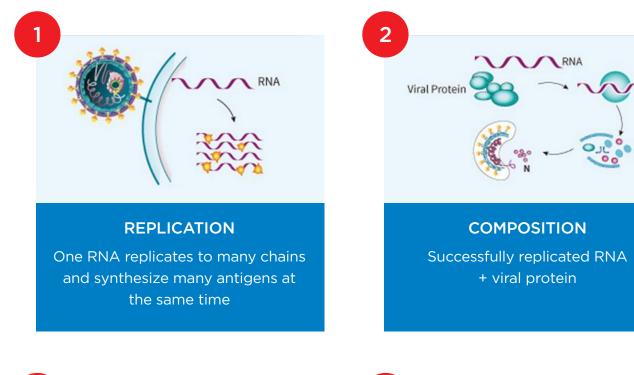


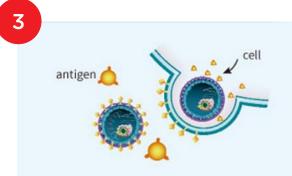
TEST METHOD	PCR	IgM / IgG ANTIBODY RAPID TEST	ANTIGEN RAPID TEST (LATEX)
ENVIRONMENTAL REQUIREMENTS	High requirements for laboratory environment	Low environmental requirements, not necessarily performed in the laboratory	Low environmental requirements, not necessarily performed in the laboratory
OPERATIONAL REQUIREMENTS	Professional testing personnel; Require special and expensive equipment	The procedure is simple and no instrument is needed	The procedure is simple and no instrument is needed
SAMPLE TYPE	Nasopharynx swab, high sampling requirements, painful in instances	Blood samples, invasive sampling	Oropharyngeal saliva, sputum and samples of the posterior oropharynx
PERFORMANCE	Gold standard of diagnosis	Auxiliary diagnosis; Good sensitivity and specificity	Auxiliary diagnosis; Higher sensitivity and 100% specificity
DETECTION TIME	2 - 3+ hours	15 minutes	10 - 15 minutes
COST	Expensive	Affordable	Affordable
APPLICABILITY	Applicability to all periods	Weeks after symptom onset	Early detection and mass screening of suspected population



#### MAIN MECHANISM OF ANTIGEN INTO BLOOD

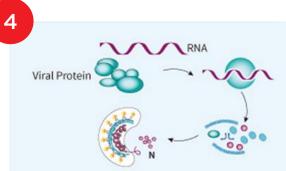
When SARS-CoV-2 invades the lung cells, it will express a large amount of self protein to reassemble the virus particles, causing cell damage and forming inflammation virus protein expressed in excess and the virus protein released from the disintegration of virus particles killed by the body in the lesions will enter the blood circulation through the vessel wall with increased permeability due to inflammation in the lesions.





#### EMISSION

Virus comes out from disintegrated cells, at the same time, many redundant antigens come out



#### TRANSMISSION

Disintegrated viral proteins enter the blood circulation through the blood vessel wall

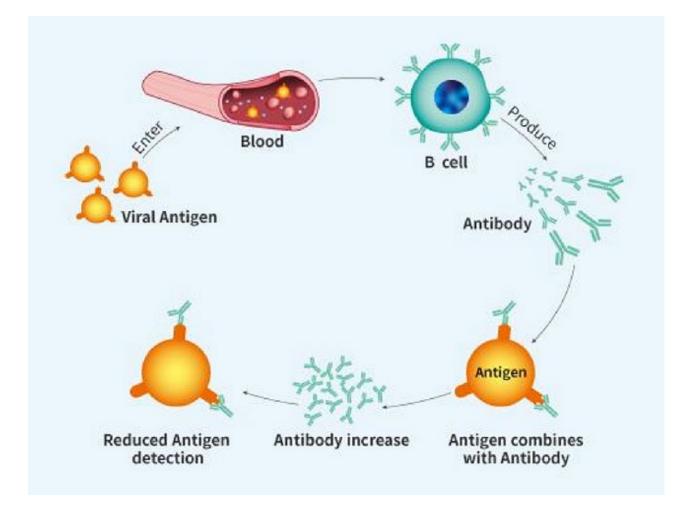


#### MECHANISM OF REDUCTION AND ELIMINATION OF ANTIGEN IN BLOOD

The virus antigen will stimulate the patient's body to produce the corresponding antibody, and the antibody will produce the specific combination with the corresponding antigen, forming the antigen antibody immune complex to be cleared by the body's immune system.

As the amount of antibody produced by the patient increases gradually, the amount of antigen cleared will also increase synchronously.

With the activation of the immune system, the ability to destroy the virus is enhanced, the viral load in the body will gradually decrease and the production of virus and blood antigen will gradually decrease.





## **PRODUCT OVERVIEW**



### **TESTSEALABS® COVID-19 ANTIGEN TEST CASSETTE**



TGA, CE & ISO Approved









Instant result in 10 minutes

swab sample



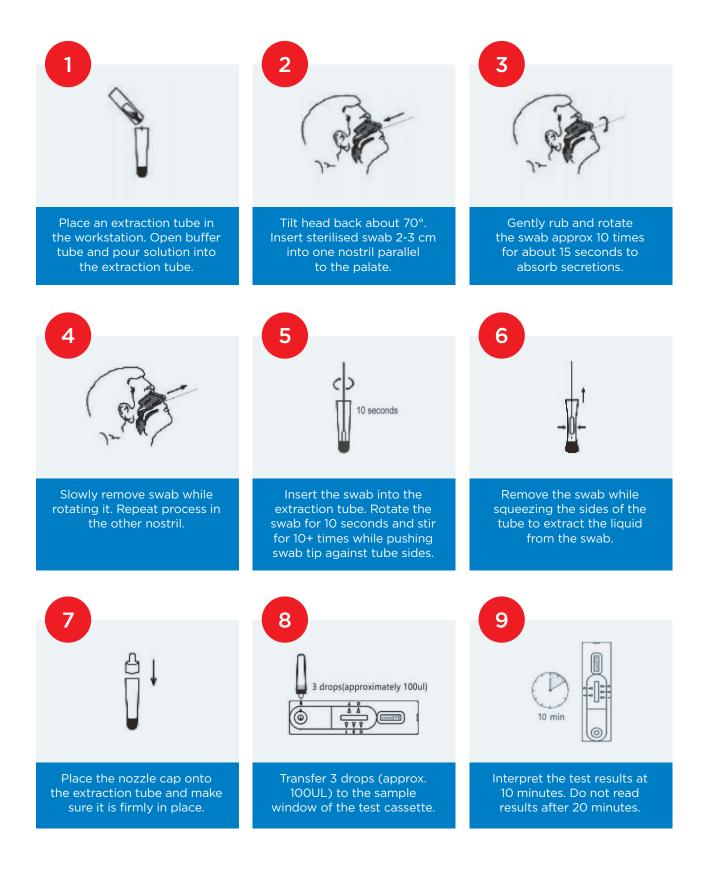
Easy to use No equipment required No PCR Lab needed

Room temperature storage (4-30°C)

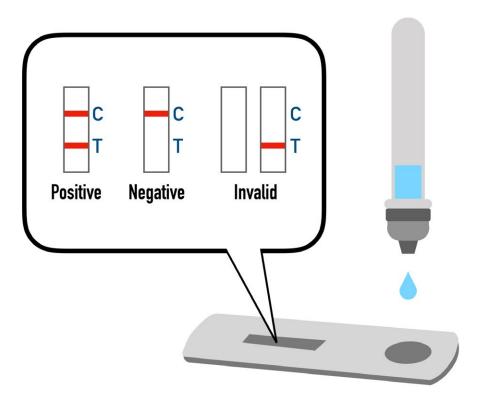


## **TEST PROCEDURE**

#### TAKE NASAL SWAB FOR EXAMPLE







#### **POSITIVE:**

Two lines appear. One line should always appear in the control line region (C), and another one apparent coloured line should appear in the test line region.

NOTE: The intensity of the colour in the test line regions may vary depending on the concentration of COVID-19 antibodies present in the specimen. Therefore, any shade of color in the test line region should be considered positive.

#### **NEGATIVE:**

One coloured line appears in the control region (C). No apparent coloured line appear in the test line region.

#### **INVALID**:

Control line fails to appear. Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Review the procedure and repeat the test with a new test device.

If the problem persists, discontinue using the test kit immediately and contact Pharma Soul.



## **PRODUCT PERFORMANCE**



A side-by-side comparison was conducted using the SARS-CoV-2 Antigen Test Cassette and referencing reagent Vitassay Healthcare S.L.U. kit (PCR). The comparison (RT-PCR) yielded the following:

#### RELATIVE SENSITIVITY

The Relative Sensitivity of the TESTSEALABS® COVID-19 Antigen Test Cassette is:

**95%** 

#### RELATIVE SPECIFICITY

The Relativity Specificity of the TESTSEALABS® COVID-19 Antigen Test Cassette is:

**99%** 

#### OVERALL AGREEMENT

The Overall Agreement of the TESTSEALABS® COVID-19 Antigen Test Cassette is:

**97%** 

The test results meet the recommended performance standards as listed by the World Health Organisation.

Reference: WHO Antigen-detection in the diagnosis of SARS-CoV-2 infection using rapid immunoassays Interim guidance: https://www.who.int/docs/default-source/coronaviruse/corrigenda-ig-2020-1-antigen-detection-2020-09-11-corr-2020-10-27-en.pdf



## TESTSEALABS® COVID-19 ANTIGEN TEST CASSETTE KIT SPECIFICATIONS:

**20 Tests/Box** 600 Tests / CTN 47 x 43 x 34.5cm 9 / 10.5 KG





## PRICING



The TESTSEALABS<sup>®</sup> COVID-19 Antigen Test Cassette is being sold based on the following pricing and volume breaks (all prices exclude shipping):

150 - 500 UNITS	1,000 UNITS	2,500 UNITS
\$13.00 ex GST	\$12.50 ex GST	\$12.00 ex GST
per test	per test	per test
5,000 UNITS	10,000 UNITS	20,000 UNITS
\$11.00 ex GST	\$10.50 ex GST	\$10.00 ex GST
per test	per test	per test

#### **ORDERING PROCESS**

Please email *info@pharmasoul.com.au* to request an official Order Form
Once the official Order Form is complete, please email a copy to *info@pharmasoul.com.au* and your order will be dispatched upon approval and once deposit has been received
All orders are subject to Special Conditions which must be adhered to in accordance with the Therapeutic Goods Administration. Any deviation from these Special Conditions may result in immediate termination of a sale or contract.



## COVID-19 RAPID ANTIGEN TEST



DESCRIPTION:	ESTSEALABS <sup>®</sup> COVID-19 Antigen Test Cassette		
PRODUCT CODE:	TSL-RAT		
FEATURES:	<ul><li> Rapid Antigen Test</li><li> Instant results in 10 mins</li><li> Easy to use</li></ul>	<ul><li>High sensitivity</li><li>High specificity</li><li>No equipment required</li></ul>	
CERTIFICATIONS:	• TGA • CE • ISO		
CASE SPECIFICATIONS:	ECIFICATIONS: • 20 Tests per Box • 600 Tests / CTN • Dimensions: 47 x 43 x 34.5cm (10.5kg)		
SHIPPING:	Price excludes shipping		
TESTING SERVICE:	Optional testing service car Please enquire for details	ting service can be provided ire for details	

All orders are subject to Special Conditions of Pharma Soul Pty Ltd and further Specific Conditions which must be adhered to in accordance with the Therapeutic Goods Administration. Any deviation from these Special Conditions may result in immediate termination of a sale or contract.

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## **KEEPING YOU SAFE AND PROTECTED.**

### CONTACT US:

300 Oxford Street Bondi Junction NSW 2022 PO Box 117 Vaucluse NSW 2030 info@pharmasoul.com.au 0413 209 836