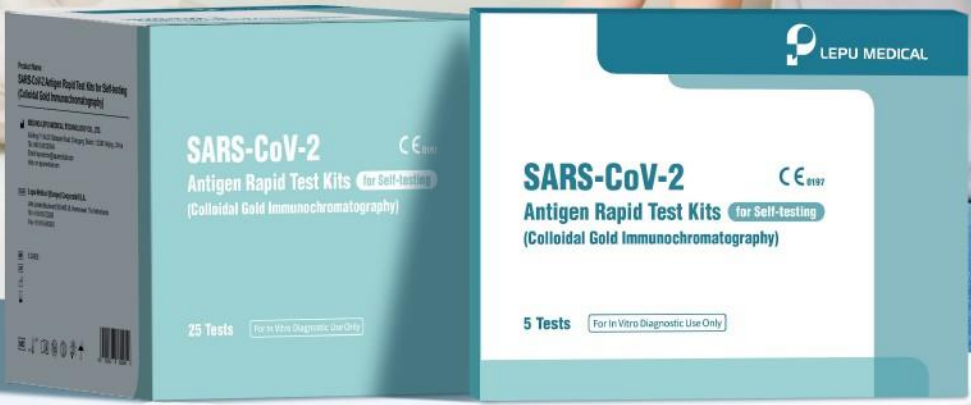


# SARS-CoV-2

## Antigen Rapid Test Kits for Self-testing

*(Colloidal Gold Immunochromatography)*

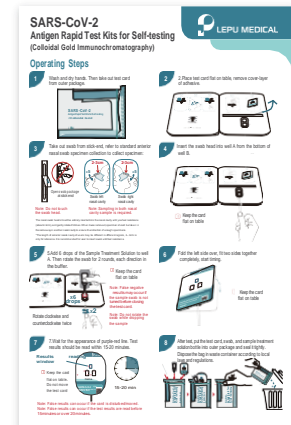




Swab



buffer



Operation Card

Questo prodotto è un test immunologico rapido a flusso laterale destinato alla rilevazione qualitativa di antigeni nucleocapsidici SARS-CoV-2 da tamponi nasali anteriori auto-raccolti da un individuo di età pari o superiore a 18 anni o raccolti da un adulto da un individuo di età inferiore ai 18 anni. Questo test è destinato all'uso in soggetti con sintomi o altri motivi epidemiologici ove si sospetta un'infezione da COVID-19. Questo prodotto è destinato ad essere utilizzato come ausilio nella diagnosi dell'infezione da SARS-CoV-2.

## Product Feature



Non-invasivo



Facilità Uso



SELF- TEST



Risultato in 15 minuti



Alta attendibilità



Economico



### Performance Clinica

Lo studio sulle prestazioni cliniche del kit per il test rapido dell'antigene SARS-CoV-2 è stato condotto in Germania. Per eseguire il test sono stati utilizzati un totale di 222 campioni clinici. I campioni positivi e negativi sono stati tutti confermati mediante PCR. La sensibilità diagnostica e la specificità diagnostica del prodotto erano rispettivamente del 95,9% (90,8-98,2%) e del 100% (96,3-100,0%).

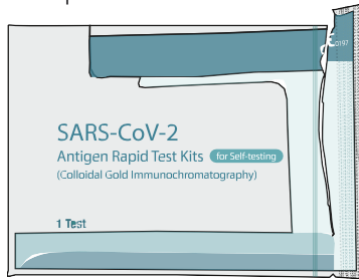
I risultati con correlazione al valore Ct dei campioni positivi sono stati mostrati nella tabella seguente

Ct Value	Diagnostic sensitivity	95%CI
≤ 30	96.2 %	88.3-98.7%
≤ 32	96.0 %	90.0-98.4%
≤ 34	95.5%	90.0-98.1%
≤ 36	95.9 %	90.8- 98.2%

## Istruzioni di Utilizzo

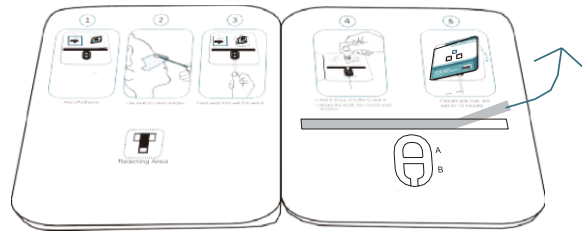
1

Lavare e asciugare le mani. Quindi estrarre la carta di prova dalla confezione esterna.



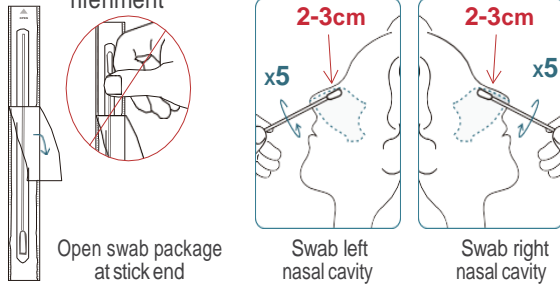
2

Posizionare la test card in piano sul tavolo, rimuovere lo strato di copertura dell'adesivo.



3

Estrarre il tampone dall'estremità del bastoncino, fare riferimento alla raccolta di campioni di riferimento

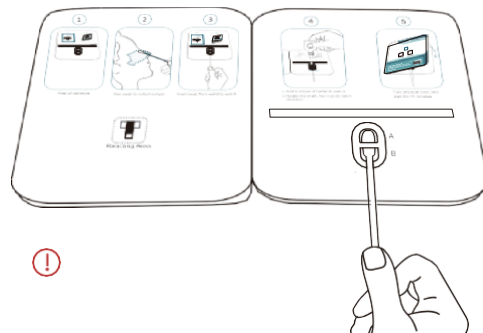


**Nota:** non toccare la testina del tampone. **Nota:** è richiesto il campionamento in entrambe le cavità nasali.

La testina del tampone nasale deve essere inserita completamente nella cavità nasale fino a quando non si avverte resistenza (circa 2-3 cm) e ruotata delicatamente 5 volte. Quando è stato rimosso, il campione deve essere prelevato allo stesso modo in un'altra cavità nasale per garantire la raccolta di campioni sufficienti. La lunghezza della cavità nasale anteriore degli utenti può essere diversa nelle diverse regioni, 2-3 cm è solo per riferimento. Si consiglia

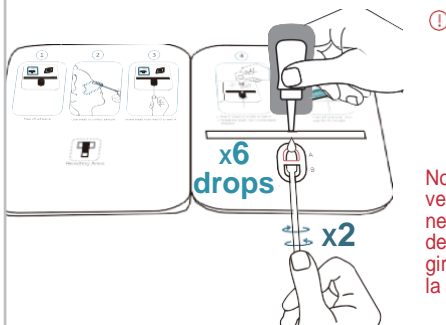
4

Inserire la testina del tampone nel pozzetto A dal fondo del pozzetto B.



5

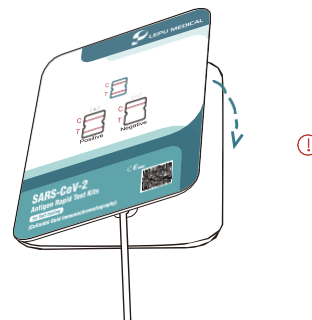
Aggiungere 6 gocce della soluzione per il trattamento del campione nel pozzetto A. Quindi ruotare il tampone per 2 giri, in ciascuna direzione



**Nota:** possono verificarsi risultati falsi negativi se il tampone del campione non viene girato prima di chiudere la test card.

6

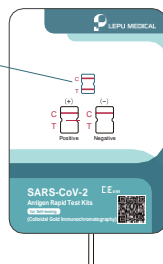
Piegare il lato sinistro, unire completamente due lati, iniziare a cronometrare.



7

Attendi la comparsa della linea rosso porpora. I risultati del test devono essere letti entro 15-20 minuti

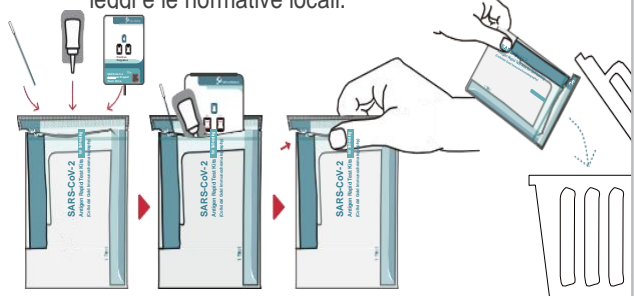
ⓘ



15-20 min

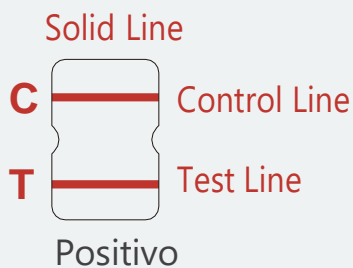
8

Dopo il test, inserire la scheda di prova, il tampone e il flacone della soluzione di trattamento del campione nella confezione esterna e sigillarlo ermeticamente. Smaltire il sacco nel contenitore dei rifiuti secondo le leggi e le normative locali.

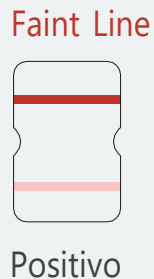


## Interpretazione dei risultati

· Positivo (+): appare una banda rosso porpora nella linea di controllo (C) e nella linea di test (T).

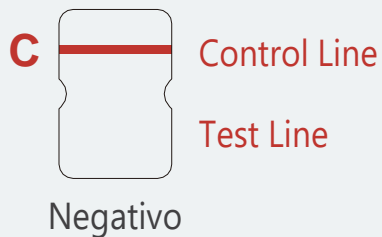


O



La linea di fondo può essere molto debole. Qualsiasi linea rosa/viola visibile qui è positiva.

· Negativo (-): solo la linea di controllo (C) mostra una banda rosso porpora. Non appare alcuna banda rosso porpora nella linea di prova (T).



· Non valido: se "non appare alcuna banda rosso porpora nella linea di controllo (C)" e "appare una banda blu nella linea di controllo (C)", indica che il processo operativo non è corretto o che la carta di prova è stata danneggiata. In questo caso, leggere di nuovo attentamente il manuale di istruzioni e riprovare con una nuova carta reattiva. Se il problema persiste, interrompere immediatamente l'utilizzo di questo lotto di prodotti e contatta il tuo fornitore locale.





## 9 Specifiche di Prodotto



Self-testing



Home



Test Site



Airport



Hotel



Corporation



Mass Screening

SARS-CoV-2 Antigen Rapid Test Kits for Self-testing (Colloidal Gold Immunochromatography)

For In-Vitro Diagnostic Use Only

For Use: 5 min/Kit, 10 min/Kit, 25 min/Kit, 30 min/Kit

Table with columns: No., Code Name, Specimen, and Size. Lists four different kit configurations.

Product Name

SARS-CoV-2 Antigen Rapid Test Kits for Self-testing (Colloidal Gold Immunochromatography)

Intended Use

This product is a rapid, lateral flow immunoassay intended for the qualitative detection of SARS-CoV-2 nucleocapsid antigens from anterior nasal swabs that are self-collected by an individual aged 18 years or older or are collected by an adult from an individual younger than 18 years old. This test is intended for use in individuals with symptoms or other epidemiological reasons to suspect COVID-19 infection.

Introduction

Coronaviruses, as the broad family of viruses, is a single strand plus RNA virus with an envelope. The virus is known to cause major disease such as cold, Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS). The core protein of SARS-CoV-2 is N protein (Nucleocapsid), which is a protein component inside the virus. It is highly conserved among all coronaviruses, and is commonly used as a diagnostic tool for coronaviruses. As the key receptor for SARS-CoV-2 to enter cells, ACE2 is significant for the study of viral infection mechanisms.

Principle

The current kit is based on specific antibody-antigen reaction and immunogold technique. The test strip consists of gold marked pad (coated with gold-marked SARS-CoV-2 N protein mouse anti-human monoclonal antibody), sample pad, NC membrane (paired SARS-CoV-2 N protein mouse anti-human monoclonal antibody coated on the test line (T) and goat anti-mouse IgG polyclonal antibody coated on the control line (C) and absorbing paper.

Main Features

- The product includes test cards, instruction for use, operation card, disposable sterile swabs and sample treatment solution. Each reagent kit contains 1 control swab (SARS-CoV-2 antigen test card and 1 bag of disposable sterile swab information).

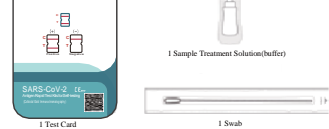
CE 0023 MDD 9342-EEC Manufacturer 1: Zhejiang Guangming Medical Technology Co., Ltd. Binzhong Industrial Area 318020 Hangzhou, China

CE 0097 MDD 9342-EEC Manufacturer 2: Jiangsu Changfeng Medical Industry Co., Ltd. Tongshan Town, Guangming District, Yangzhou 225009 Jiangsu, China

Table with columns: Specimen, Test Card, Reagent Solution, Operation, Sample Treatment Solution, and Other. Lists various components and their quantities.

Components

The SARS-CoV-2 Antigen Rapid Test Kit for Self-testing (Colloidal Gold Immunochromatography) contains 3 core elements for operation: Test card: Test card which is book-shaped binged test cardboard containing the test strip (see single use) Sample Treatment Solution: Bottle containing sample treatment solution (for single use) Nasal Swabs: Sterile swab (for single use)



Materials required but not provided: Clean or sterile water, Water container

Storage Conditions and Validity Period: The test kit should be stored in a dry and dark place with temperature of 4-30°C, valid for 18 months.

Specimen Requirements: This test kit is suitable for testing human anterior nasal swab specimen. The collection process, color and personnel should be well prepared to avoid direct contact with the specimen.



Please read the instruction for use completely before performing any test, and use the reagents and specimens after returning to room temperature.

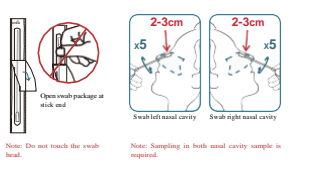
1. Wash and dry hands. Then take out test card from outer package.



2. Place test card flat on table, remove cover-layer of adhesive.

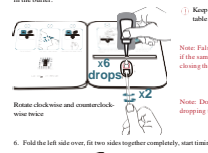


3. Take out swab from stick-end, refer to standard anterior nasal swab specimen collection to collect specimen. The nasal swab should be evenly inserted into the nasal cavity until you feel resistance (about 2-3cm), and gently rotated 5 times. When it is removed, specimen should be taken in the same way in the other nasal cavity to ensure the collection of enough specimens.



4. Insert the swab head into well A from the bottom of well B.

5. Add 5 drops of the Sample Treatment Solution to well A. Then rotate the swab for 2 minutes, each direction in the buffer.



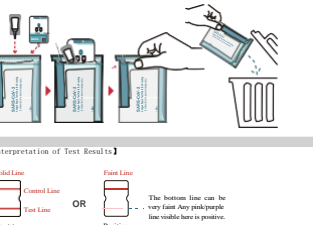
6. Fold the left side over, fit two sides together completely, start timing.



7. Wait for the appearance of purple-red line. Test results should be read within 15-20 minutes.



8. After test, put the test card, swab, and sample treatment solution bottle into outer package and seal it tightly. Dispose the bag in medical waste container according to local laws and regulations.



12. Positive test results do not rule out co-infections with other pathogens.

13. Negative test results are not indicative of other SARS-CoV-2 viral or bacterial infections.

14. Negative results do not rule out COVID-19 infection and it may be necessary to obtain additional testing with a molecular assay, if needed for patient management.

15. Positive test results do not differentiate between SARS-CoV and SARS-CoV-2.

Internal Quality Control: The product has a Test Line (T) and a Control Line (C) on the surface of the test card. Neither the Test Line (T) nor the Control Line (C) is visible in the result window before applying a specimen. The control line is used for procedural control and should always appear if the test procedure is performed properly and the test reagents of the control line are working.

Product Performance Indicators: 1. Determination of the Limit of Detection (LOD): SARS-CoV-2 Antigen Rapid Test Kits limit of detection (LOD) was determined by evaluating different concentrations of inactivated novel coronavirus culture medium.

2. Analytical Specificity: SARS-CoV-2 Antigen Rapid Test Kits were evaluated with 203 swab eluates were confirmed and mixed thoroughly to create a clinical matrix pool to be used as the diluent.

3. Cross-reactivity: SARS-CoV-2 Antigen Rapid Test Kits were evaluated with 203 swab eluates were confirmed and mixed thoroughly to create a clinical matrix pool to be used as the diluent.

Table showing LOD results for various concentrations of inactivated novel coronavirus culture medium.

Table showing specificity results for various pathogens including SARS-CoV-2, SARS-CoV, MERS-CoV, and others.

Table showing cross-reactivity results for various coronaviruses and other pathogens.

Table showing interference results for various substances like hemoglobin, glucose, and antibiotics.

Table showing storage conditions and validity periods for different components of the kit.

Table showing clinical performance metrics: Sensitivity (95.9%), Specificity (100%), Accuracy (99.2%), and Precision (99.9%).

Warnings and Precautions

- 1. For in vitro diagnostic use only. The product can be used for self-testing. 2. Do not eat or smoke while handling specimens. 3. The temperature and humidity of the experimental environment should be avoided to be too high, the reaction temperature should be 15-30°C and the humidity should be below 70%.

Explanation of Symbols: IVD (In Vitro Diagnostic Medical Device), CE MARK, REF (Reference), etc.

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