

LUNGENE COVID-19 Antigen Rapid Test Cassette

For in vitro diagnostic use only

REF: IC0V202-0005

[INTENDED USE]
The COVID-19 Antigen Rapid Test Cassette is a lateral flow immunoassay intended for the qualitative detection of SARS-CoV-2 nucleocapsid antigens in nasopharyngeal swab, the qualitative detection of SARS-CoV-2 nucleocapsid antigens in oropharyngeal swab, or nasal swab or oropharyngeal swab from patients who are suspected of COVID-19 by their healthcare provider.

This assay is for the identification of SARS-CoV-2 nucleocapsid antigen. Antigen is detectable in nasopharyngeal swab, nasal swab and oropharyngeal swab (generally detectable in nasopharyngeal swab). Positive results indicate the presence of viral antigen, but clinical correlation with laboratory and other diagnostic information is necessary to determine infection status. Positive results do not rule out bacterial infection or infection with other agents. A negative result may not be the definitive cause of disease.

Negative results do not rule out SARS-CoV-2 infection and should not be used as the basis for treatment or patient management decisions, including infection control decisions. Negative results should be considered in the context of a patient's recent exposures, history and the presence of clinical signs and symptoms consistent with COVID-19 and confirmed with a molecular assay. Intended for use by medical professionals or trained operators who are proficient in performing lateral flow tests. The product may be used in any laboratory and/or laboratory environment that meets the requirements specified in the Instructions for Use and local regulation.

[SUMMARY]
The novel coronavirus (SARS-CoV-2) belongs to the β genus. COVID-19 is an acute respiratory infectious disease. People are generally susceptible. Currently, the patients infected by the novel coronavirus are the main source of infection. Asymptomatic infected people can also be a main source. Based on the current epidemiological investigation, the incubation period is 1 to 14 days, mostly 3 to 7 days. The main manifestations include fever, fatigue and dry cough. Nasal congestion, runny nose, sore throat, myalgia and diarrhea are found in a few cases.

[PRINCIPLE]
The COVID-19 Antigen Rapid Test is a lateral flow immunoassay based on the principle of the double-antibody sandwich technique. SARS-CoV-2 nucleocapsid protein monoclonal antibody conjugated with color microcapsules is used as detector and antigen on conjugation pad. During the test, SARS-CoV-2 antigen in the specimen reacts with SARS-CoV-2 antibody conjugated with color microcapsules making antigen-antibody labeled complex. The complex migrates on the membrane via capillary action until the test line, where it will be captured by the pre-coated SARS-CoV-2 nucleocapsid protein monoclonal antibody. A colored test line (T) will be visible in the result window if SARS-CoV-2 antigens are present in the specimen. Absence of the T line suggests a negative result. The control line (C) is used for procedure control, and should always appear if the test procedure is performed properly.

- [WARNINGS AND PRECAUTIONS]**
- For in vitro diagnostic use only.
 - For healthcare professionals and individuals trained in point of care settings.
 - Do not use this product as the sole basis to diagnose or exclude SARS-CoV-2 infection or to infer infection status of COVID-19.
 - Do not use this product after the expiration date.
 - Please read all the information in this leaflet before handling the test.
 - This test cassette should remain in the sealed pouch until use.
 - All specimens should be considered potentially hazardous and handled in the same manner as an infectious agent.
 - The used test cassette should be discarded according to federal, state and local regulations.

[COMPOSITION]
Materials Provided

- 5 Test Cassettes, each cassette with desiccant in individual foil pouch
- 5 Extraction Reagent Tubes, ampoule containing 0.3 mL of extraction reagent
- 5 Shorted Swabs, single use swab for specimen collection
- 1 Package Insert

Materials Required but not Provided

- Timer

[STORAGE AND STABILITY]

- Store as packaged in the sealed pouch at temperature (4-30°C or 40-86°F). The kit is stable under the expiration date provided on the labeling.
- Once open the pouch, the test should be used within one hour. Prolonged exposure to hot and humid environment will cause product deterioration.
- The LOT and the expiration date were printed on the labeling.

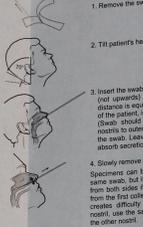
[SPECIMEN]
Specimens obtained early during symptom onset will contain the highest viral titers; specimens obtained after the date of symptom are more likely to produce negative results when compared to an RT-PCR assay. Adequate specimen collection, improper specimen handling, and/or transport may yield false results; therefore, training in specimen collection is highly recommended due to the importance of specimen quality to obtain accurate test results.

Acceptable specimen type for testing is direct swab specimen or a swab in viral transport media (VTM) without disturbing agents. Use freshly collected direct swab specimens for best test performance.

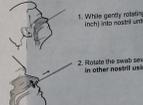
Prepare the extraction reagent tube according to the Test Procedure and use the sterile

swab provided in the kit for specimen collection.

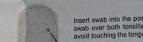
Nasopharyngeal Swab Specimen Collection



Nasal Swab Specimen Collection



Oropharyngeal Swab Specimen Collection



Specimen Transport and Storage

Do not return the swab to the original swab packaging. Freshly collected specimens should be processed as soon as possible, but no later than one hour after specimen collection. Specimen collected may be stored at 2-8°C for no more than 24 hours. Store at -70°C for a long time, but avoid repeated freeze-thaw cycles.

[TEST PROCEDURE]

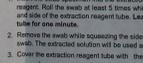
Note: Allow the test cassette, reagents and specimens to equilibrate to room temperature (15-30°C or 59-86°F) prior to testing.

- Carefully tear off the sealed foil film on the extraction reagent tube. Do not let the extraction reagent flow out.
- Push a hole on the box and insert the extraction reagent tube into the hole.
- Squeezing refers to action "Specimen Collector".

Direct Swab Test Procedure



Swab in Viral Transport Media (VTM) Test Procedure



Interpretation of Results

Positive: Two lines appear. One colored line appears at the control region (C), and another colored line appears at the test region (T), regardless of the intensity of the test line.

Negative: One colored line appears at the control region (C), and no line appears at the test region (T).

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 using a new test cassette. If the problem persists, discontinue using the kit immediately and contact your local distributor.

[QUALITY CONTROL]

Procedure control is included in the test. A colored line appearing in the control region (C) is considered an internal procedural control. It confirms sufficient specimen volume, adequate membrane wetting and correct procedural technique. Control standards are not supplied with this kit. However, it is recommended that positive and negative controls be tested as good laboratory practice to confirm the test procedure to verify proper test performance.

[LIMITATIONS]

- The product is limited to provide a qualitative detection. The intensity of the test line does not necessarily correlate to the concentration of the antigen of the specimens.
- Negative results do not preclude SARS-CoV-2 infection and should not be used as the sole basis for patient management decisions.
- A physician must interpret the results in conjunction with the patient's history, physical findings, and other diagnostic procedures.
- A negative result can occur if the quantity of SARS-CoV-2 antigens present in the specimen is below the detection threshold of the assay, or the virus has undergone minor antigenic acid mutations in the target epitope region recognized by the monoclonal antibodies utilized in the test.

[PERFORMANCE CHARACTERISTICS]

Clinical Performance

The clinical performance of COVID-19 Antigen Rapid Test Cassette was established in prospective studies with nasopharyngeal swabs collected from 770 individual symptomatic patients (within 7 days of onset) and asymptomatic patients who were suspected of COVID-19.

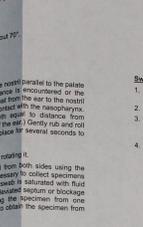
Summary data of COVID-19 Antigen Rapid Test as below:

LUNGENE [®]	RT-PCR (CI values \geq 3)		Total
	Positive	Negative	
Total	148	2	150
PPA (CI \geq 3)	148	0	148
NPA	0	2	2

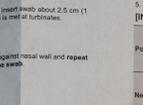
PPA: 99.3% (CI=99.3%), NPV: 0% (CI=0%)

with provided in the kit for specimen collection.

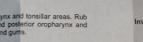
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Nasal Swab Specimen Collection



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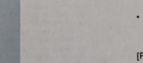
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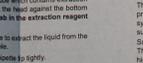
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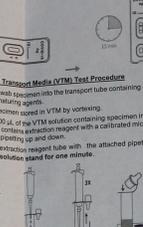
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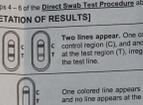
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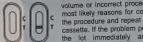
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Nasal Swab Specimen Collection



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Specimen Transport and Storage

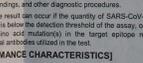
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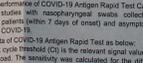
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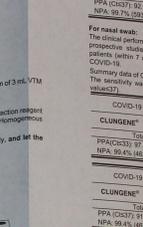
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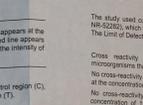
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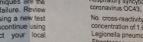
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Nasal Swab Specimen Collection



Oropharyngeal Swab Specimen Collection



Specimen Transport and Storage

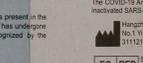
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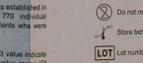
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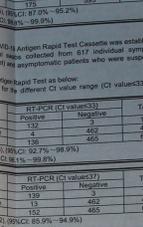
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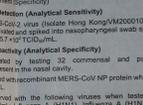
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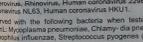
Nasopharyngeal Swab Specimen Collection



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Oropharyngeal Swab Specimen Collection



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LINGENE® COVID-19 Antigen Rapid Test Cassette

VERWENDUNGSZWECK

Das COVID-19 Antigen Rapid Test Cassette ist eine Point-of-Care-Diagnostik zur Erkennung von SARS-CoV-2 Antigenen in Nasopharyngealabstrichen, Nasensekreten und Drophenabstrichen. Es ist für den Einsatz in einem klinischen oder häuslichen Umfeld geeignet. Das COVID-19 Antigen Rapid Test Cassette ist für die Verwendung durch geschultes Personal vorgesehen. Die Ergebnisse werden innerhalb von 15 Minuten bekannt gegeben. Positive Ergebnisse weisen auf eine SARS-CoV-2-Infektion hin, während negative Ergebnisse keine Infektion mit SARS-CoV-2 anzeigen. Die Ergebnisse sind für die klinische Entscheidungsfindung zu verwenden. Die Ergebnisse sind nicht für die Diagnose von SARS-CoV-2-Infektionen bei Verdacht auf COVID-19 zu verwenden. Die Ergebnisse sind nicht für die Diagnose von SARS-CoV-2-Infektionen bei Verdacht auf COVID-19 zu verwenden. Die Ergebnisse sind nicht für die Diagnose von SARS-CoV-2-Infektionen bei Verdacht auf COVID-19 zu verwenden.

Probenentnahme für den Nasopharyngealabstrich

- Nehmen Sie den Tufter aus der Verpackung.
- Neigen Sie den Kopf des Patienten um etwa 70° nach hinten.
- Führen Sie den Tufter parallel zum Gaumen (nicht direkt oberhalb des Nasopharynx), bis ein leichter Widerstand auftritt oder der Abdruck des vom Ohr zum Gaumen des Patienten verläuft, was auf einen Kontakt mit dem Nasopharynx hinweist. Der Tufter sollte die Schleimhäute des Gaumens, des Nasopharynx und des Oropharynx berühren. Drücken Sie den Tufter vorsichtig gegen die Schleimhäute des Gaumens, des Nasopharynx und des Oropharynx, um eine ausreichende Menge an Nasopharyngealabstrich zu gewinnen. Drücken Sie den Tufter vorsichtig gegen die Schleimhäute des Gaumens, des Nasopharynx und des Oropharynx, um eine ausreichende Menge an Nasopharyngealabstrich zu gewinnen. Drücken Sie den Tufter vorsichtig gegen die Schleimhäute des Gaumens, des Nasopharynx und des Oropharynx, um eine ausreichende Menge an Nasopharyngealabstrich zu gewinnen.
- Entfernen Sie den Tufter langsam, während Sie ein leichtes Zucken des Kopfes des Patienten beobachten. Entfernen Sie den Tufter langsam, während Sie ein leichtes Zucken des Kopfes des Patienten beobachten. Entfernen Sie den Tufter langsam, während Sie ein leichtes Zucken des Kopfes des Patienten beobachten.

Tufter als sterile Transportprobe (VTM) Testverfahren

- Führen Sie die Transportprobe in das Extraktionsgeßnis mit maximal 3 ml VTM (ohne Zusatz von Reagenzien) ein.
- Mischen Sie die VTM gründlich mit der Extraktionslösung. Drücken Sie den Tufter vorsichtig gegen die Schleimhäute des Gaumens, des Nasopharynx und des Oropharynx, um eine ausreichende Menge an Nasopharyngealabstrich zu gewinnen. Drücken Sie den Tufter vorsichtig gegen die Schleimhäute des Gaumens, des Nasopharynx und des Oropharynx, um eine ausreichende Menge an Nasopharyngealabstrich zu gewinnen.
- Drücken Sie die Extraktionslösung mit der extrahierten Lösung eine Minute lang zusammen.

PPA (CI 537) 96,9% (145/148), (95% CI 96,2% - 99,3%)
 NPA 99,7% (100/101), (95% CI 99,3% - 100%)

COVID-19 Antigen	RT-PCR (CI-Wert 537)	Gesamt
CLUNGENE®	Positiv	163
	Negativ	120
	Gesamt	283

PPA (CI 537) 92,9% (161/173), (95% CI 91,6% - 95,2%)
 NPA 99,2% (100/101), (95% CI 98,8% - 99,9%)

COVID-19 Antigen	RT-PCR (CI-Wert 537)	Gesamt
CLUNGENE®	Positiv	135
	Negativ	462
	Gesamt	597

PPA (CI 537) 97,1% (132/137), (95% CI 96,7% - 99,9%)
 NPA 99,4% (40/40), (95% CI 98,1% - 99,9%)

COVID-19 Antigen	RT-PCR (CI-Wert 537)	Gesamt
CLUNGENE®	Positiv	147
	Negativ	485
	Gesamt	632

ZUSAMMENFASSUNG

Das COVID-19 Antigen Rapid Test ist ein Lateral-Flow-Immunoassay, das auf dem Prinzip der Doppellinien-Sandwich-Technologie basiert. Der monoklonale SARS-CoV-2-Antigen-Antikörper, der mit Formyloligosaccharid konjugiert ist, wird als Capture-Reagenzien in der Probe verwendet. Die SARS-CoV-2-Antigene, die in der Probe vorhanden sind, binden an die Capture-Reagenzien. Dieser Komplex bindet an die SARS-CoV-2-Antigen-Antikörper, die mit Formyloligosaccharid konjugiert sind, wodurch ein Sandwich-Komplex entsteht. Dieser Komplex bindet an die SARS-CoV-2-Antigen-Antikörper, die mit Formyloligosaccharid konjugiert sind, wodurch ein Sandwich-Komplex entsteht. Dieser Komplex bindet an die SARS-CoV-2-Antigen-Antikörper, die mit Formyloligosaccharid konjugiert sind, wodurch ein Sandwich-Komplex entsteht.

Probenentnahme für den Nasensekret

- Mit vorsichtigem Drehen führen Sie den Tufter etwa 2,5 cm in das Nasenhohlräum ein, bis bei der hinteren Nasenhöhle Widerstand auftritt.
- Drehen Sie den Tufter mehrmals gegen die hintere Nasenhöhle und wachsenden Sie die Vergrößerung in der anderen Nasenhöhle mit demselben Tufter.

ERKLÄRUNG DER ERGEBNISSE

Positiv: Es erscheinen zwei Linien. Eine farbige Linie erscheint im Kontrollbereich (C) und eine andere farbige Linie erscheint im Testbereich (T). Unabhängig von der Stärke der Testlinie.

Negativ: Eine farbige Linie erscheint im Kontrollbereich (C) und keine Linie erscheint im Testbereich (T).

Ungültig: Die Kontrolllinie wird nicht angezeigt. Unzureichendes Probenvolumen oder falsche Verfahrenstechnik sind die wahrscheinlichsten Ursachen für das Versagen der Kontrolllinie. Überprüfen Sie die Verfahren und wiederholen Sie den Test mit einem neuen Nachweiskit. Wenn das Problem weiterhin besteht, wenden Sie sich an den Hersteller.

Nachweisgrenze (Analytische Sensitivität)

Die Studie ermittelte kultivierte SARS-CoV-2-Virus (Dosis 10⁶ TCID₅₀/0,01 ml) mit 100% Sensitivität und Spezifität. Die Nachweisgrenze (LOD) beträgt 5,7 × 10⁴ TCID₅₀/ml.

Kreuzreaktivität (Analytische Spezifität)

Die Kreuzreaktivität wurde durch Testen von 32 kulturellen und pathogenen Mikroorganismen bestätigt, die der Nasenhöhle entnommen sind. Bei den folgenden Viren wurde keine Kreuzreaktivität beobachtet, wenn sie bei einer Konzentration von 10⁶ TCID₅₀/0,01 ml getestet wurden: Influenza A (H1N1), Influenza A (H3N2), Influenza B (Yamagata), Influenza B (Victoria), Adenovirus (Typ 1, 2, 3, 4), Respiratorisches Syncytium-Virus, Enterovirus, Parainfluenza Virus (Typ 1, 2, 3, 4), Respiratorisches Coronavirus OC43, Menschliches Coronavirus NL63, Menschliches Coronavirus HKU1.

WARNUNGEN UND VORSICHTSMAßNAHMEN

- Nur zur In-vitro-Diagnostik.
- Für diagnostische Zwecke sind Point-of-Care-Umgebungen geeignetes Personal vorgesehen.
- Verwenden Sie diese Probe nicht als einzige Grundlage zur Diagnose oder zum Ausschluss von COVID-19.
- Verwenden Sie nicht zum Verpacken, bevor Sie den Test durchführen.
- Das Nachweiskit sollte vor Gebrauch in einem versiegelten Beutel aufbewahrt werden.
- Alle Proben sollten als potenziell gefährlich eingestuft und wie ein Infektionsrisiko behandelt werden.
- Das geschützte Nachweiskit enthält keine Bestimmungen des Bundes, der Länder oder der anderen Behörden.

TESTVERFAHREN

- Lesen Sie die Testanweisungen, Reagenzien und Proben vor dem Testen auf Raumtemperatur (15-30 °C oder 58-86 °F) kalibrieren.
- Reinigen Sie die verpackte Folie am Extraktionsgeßnis vorsichtig ab. Lassen Sie das Extraktionsgeßnis nicht austrocknen.
- Drücken Sie ein Loch in die Schutzfolie ein und wachen Sie das Extraktionsgeßnis in das Loch.
- Informationen zur Probenentnahme finden Sie im Abschnitt „Probenentnahme“.

QUALITÄTSKONTROLLE

Das Verfahrensvolumen im Test enthalten. Eine farbige Linie im Kontrollbereich (C) wird als interne Verifikationskontrolle betrachtet. Es bestätigt ein ausreichendes Probenvolumen, eine ausreichende Durchdringung der Membran und eine korrekte Verfahrenstechnik. Kontrollstandards werden mit diesem Kit nicht geliefert. Es wird jedoch empfohlen, positive und negative Kontrollen an gute Labors zu bestellen, um das Testverfahren zu bestätigen und die serologische Testleistung zu überprüfen.

LEISTUNGSKONTROLLE

Die klinische Leistung

- Führen Sie die Testprobe in das Extraktionsgeßnis ein, das das Extraktionsgeßnis enthält. Drücken Sie den Tufter mindestens fünfmal, während Sie den Tufterkopf gegen den Boden und die Seite des Extraktionsgeßnisses drücken. Lassen Sie den Tufter eine Minute im Extraktionsgeßnis.
- Entfernen Sie den Tufter, während Sie die Seite des Röhrchens zusammenziehen, um die Flüssigkeit aus dem Tufter zu extrahieren. Die extrahierte Lösung wird als Testprobe verwendet.
- Drücken Sie die Extraktionslösung mit der extrahierten Lösung eine Minute lang zusammen.

Hochoberer Hook-Effekt

Das COVID-19 Antigen Rapid Test Cassette wurde bis zu 1,0 × 10¹⁰ TCID₅₀/ml vom kultivierten SARS-CoV-2 Antigen und es wurde kein hochoberser Hook-Effekt beobachtet.

Index des Symbols

- IC REP In-vitro-Diagnostik Medizinprodukte
- LOT Chargennummer
- Verwendbar bis
- Trocknen aufbewahren
- IC REP Hersteller
- IC REP

LAGERUNG UND STABILITÄT

- Lagern Sie es in dem versiegelten Beutel bei einer Temperatur (4-30 °C oder 40-86 °F). Die Kit-Karte sollte bis auf das Extraktionsgeßnis, Verfallsdatum und die Seriennummer bis zu einer Stunde durchgelassen werden. Lagern Sie es in dem versiegelten Beutel auf einer verschweißten Folie.
- Das Chargennummer und das Verfallsdatum sind auf dem Etikett aufgedruckt.

PROBE

Proben, die bis zu 24 Stunden im Originalbehälter erhalten werden, erlauben die Nachweisgrenze. Proben, die durch Lagerung im Originalbehälter erhalten werden, erlauben die Nachweisgrenze. Proben, die durch Lagerung im Originalbehälter erhalten werden, erlauben die Nachweisgrenze.

Direktabstrich-Testverfahren

- Führen Sie die Testprobe in das Extraktionsgeßnis ein, das das Extraktionsgeßnis enthält. Drücken Sie den Tufter mindestens fünfmal, während Sie den Tufterkopf gegen den Boden und die Seite des Extraktionsgeßnisses drücken. Lassen Sie den Tufter eine Minute im Extraktionsgeßnis.
- Entfernen Sie den Tufter, während Sie die Seite des Röhrchens zusammenziehen, um die Flüssigkeit aus dem Tufter zu extrahieren. Die extrahierte Lösung wird als Testprobe verwendet.
- Drücken Sie die Extraktionslösung mit der extrahierten Lösung eine Minute lang zusammen.

COVID-19 Antigen	RT-PCR (CI-Wert 537)	Gesamt
CLUNGENE®	Positiv	145
	Negativ	3
	Gesamt	148

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 111121 Hangzhou, China

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