

Safecare Biotech (Hangzhou) co.,ltd



SAFECARE COVID-19 Ag

COVID-19 Antigen Rapid Test Device(Swab)



Safecare Covid-19 Antigen Rapid Test Device (Swab)

INTRODUCTION

COVID -19 Antigen Test Kit (Swab)

Intended Use : Detection of SARS-COV2 Antigen

Package : 25 tests/ box,5 tests/ box,1 test / box

Storage : 4-30°C

Specimen Type : Nasopharyngeal / Nasal Swab

Shelf Life : 24 months

Time to Result : 10-15 Minutes

German PEI Evaluation Passed





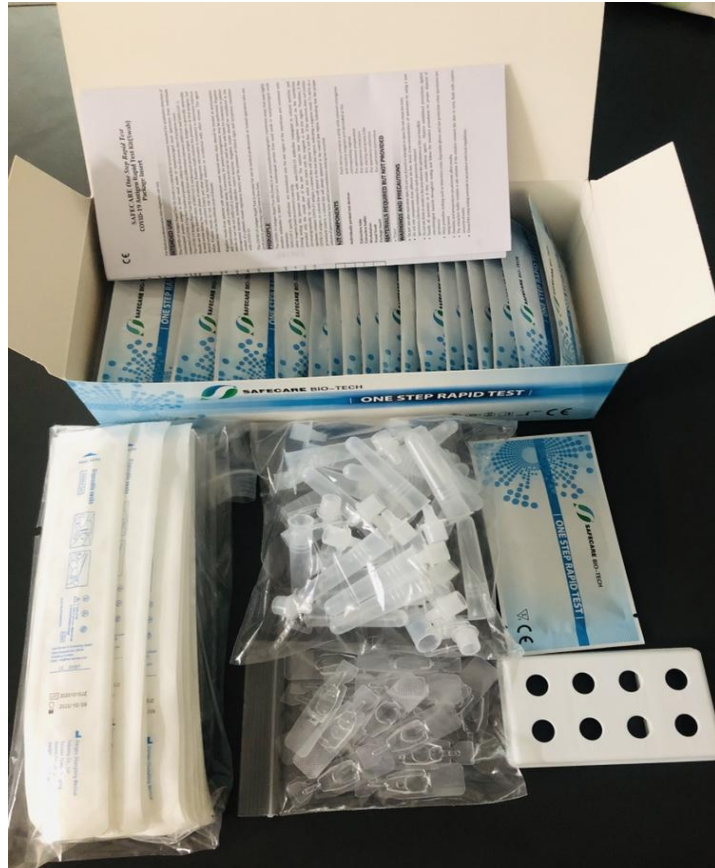
INTENDED USE

For in vitro qualitative detect of Covid-19 antigen in nasal(NS) swab specimens directly from individuals who are suspected of COVID-19 by their healthcare provider within the first 5 days of the onset of the symptoms. This test is only provided for use by clinical laboratories or to healthcare workers for point-of-care testing, and not for at home testing.

PRODUCT PHOTOS



COMPONENT/(BOX)



25 tests packed in one box :

25 Test Device

25 Nasal Swabs

25 Extraction tube

1 workstation

1 Bottle of buffer

1 Package Insert

PACKAGE SIZE /CARTON

Length:630mm

Width:370mm

Height:300mm

Weight:10Kgs

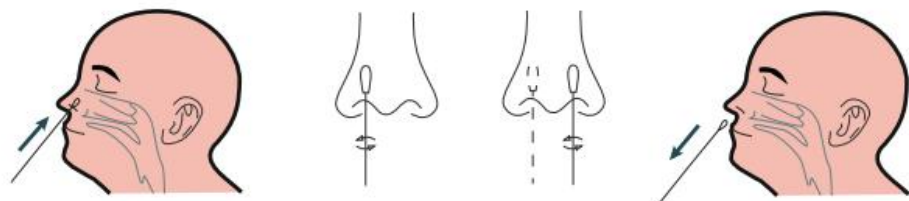
Include:27 box 675PCS (product& carton)



检测过程

TEST PROCEDURE

Nasal Sample:

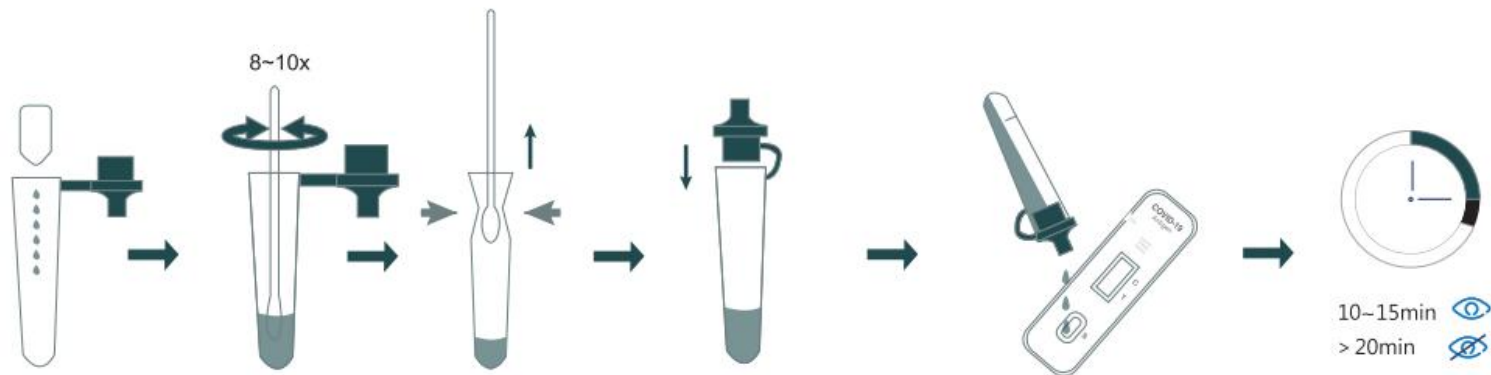


Insert the swab up to 2.5cm and roll 5 times in each nostril

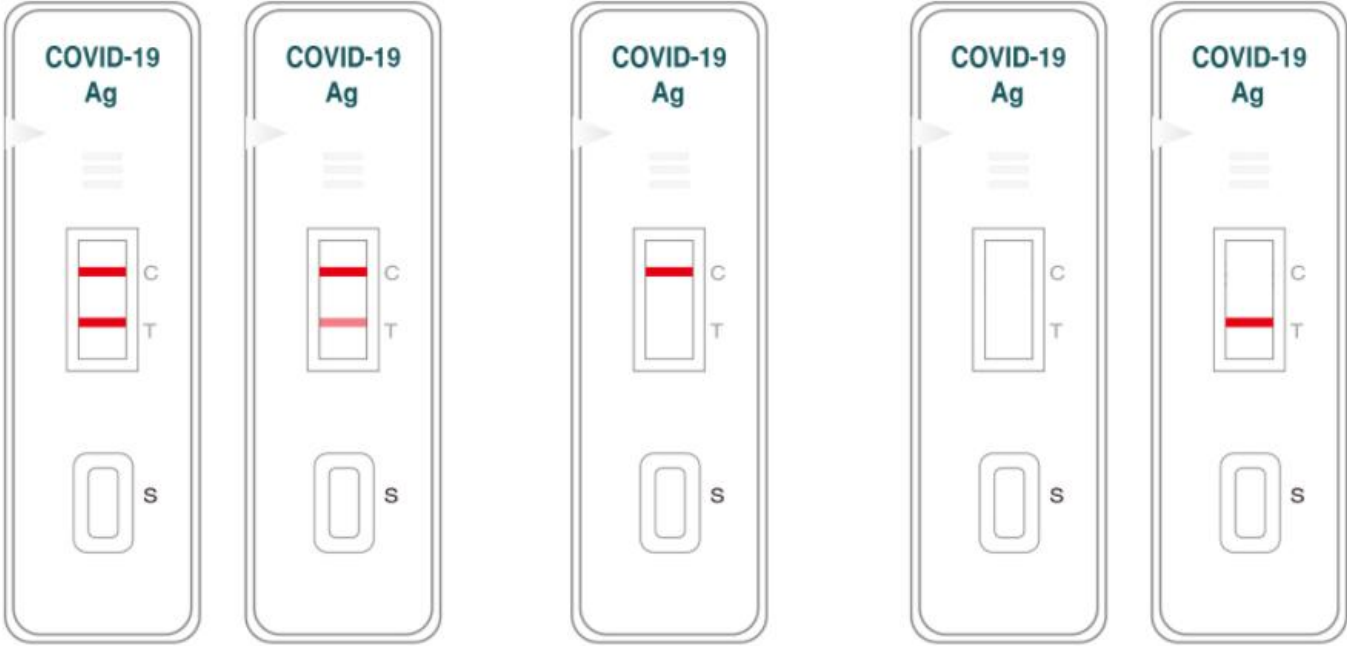
Nasopharyngeal Sample:



Rotate the swab several times



INTERPRETATION OF RESULTS



Positive

Negative

Invalid

CERTIFICATE

CE **CE**

EC Declaration of Conformity

according to the Directive 98/79/EC
(applicable to IVD Devices of NOT Annex II and NOT self-test)

Manufacturer: Safecare Biotech (Hangzhou) Co., Ltd.
Address: Building 2/203, No.18 Haishu Rd.Cangqian Sub-district,
Yuhang District, Hangzhou, Zhejiang China 311121
EC Representative: NIC GmbH
Erlenweg 13,49076 Osnabrück, Germany

We, the manufacturer, declare under our sole responsibility that

the medical device(s)	Product Name	COVID-19 Antigen Rapid Test Kit(Swab)
	Type/model, identification of product allowing traceability (Where applicable)	Cassette(COV Ag-6012)
of Category:	Common/Others IVD	
	(Devices of NOT Annex II and NOT self-test)	

is/are in conformity with the relevant provisions and requirements of Directive 98/79/EC of the European Parliament and of the Council on In-Vitro Diagnostic Medical Devices.

Applied harmonised standards, national standards or other normative documents	EN ISO23640:2015	EN ISO 18113-1:2011
	EN 13612:2002	ISO 18113-2: 2009
	EN 13641:2002	EN1041-2008
	EN ISO 14971:2019	EN ISO15223-1:2016
	ISO13485:2016	

Conformity assessment procedure: **Module A (EC Declaration of Conformity) Annex III, except point 6)**

Notified Body (name & number): **NOT applicable**
Certificate & number:

Signed on 28th Sep.,2020 Place: Hangzhou, Zhejiang, China

Signature (on behalf of the manufacturer): Kabin Qiu 2020.9.28

Name of authorized signatory: Kabin Qiu
Position held in the company: General Manager
Seal Stamp:

Certificate

The Certification Body of
TÜV Rheinland LGA Products GmbH

hereby certifies that the organization
**Safecare Biotech (Hangzhou)
Co., Ltd.
Building 2/203, No. 18 Haishu Rd.
Cangqian Sub-district, Yuhang District
Hangzhou
311121 Zhejiang
P.R. China**

has established and applies a quality management system for medical devices
for the following scope:

**Design and Development, Manufacture and
Distribution of In Vitro Diagnosis of
Rapid Test of Fertility, Drug of Abuse,
Cardiac Markers, Infectious Diseases**

Proof has been furnished that the requirements specified in

EN ISO 13485:2016

are fulfilled. The quality management system is subject to yearly surveillance.

Effective Date: 2020-08-02
Certificate Registration No.: SX 60149088 0001
An audit was performed. Report No.: 15096152 005
This Certificate is valid until: 2023-06-06

Certification Body

Deutsche
Akkreditierungsstelle
D-ZM-14169-01-02

Date: 2020-08-02

Herbert Ziegler

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel. +49 221 806-1321 Fax: +49 221 806-3935 e-mail: cert-verify@tuv.rwth-aachen.de http://www.tuv.com/verify

Test-ID	Handelsname des Herstellers / Europ. Bevollmächtigten	Evaluierung PEI	Hersteller			Europäischer Bevollmächtigter				Sensitivität		Spezifität		
			Name ↑	Stadt	Land	Name	Stadt	Land	Deutsche(r) Vertreter	Testort*	%	95%iges Vertrauensintervall	%	95%iges Vertrauensintervall
AT199/20	COVID-19 Antigen Rapid Test Kit (Swab)	Ja	Safecare Biotech (Hangzhou) Co., Ltd.	Hangzhou	CN	NIC GmbH	Osnabrück	DE	Details	POC (ohne Gerät)	97,27	94,45 - 98,89	99,42	97,93 - 99,93
AT483/20	Multi-Respiratory Virus Antigen Test Kit(Swab) (Influenza A+B/ COVID-19)	Ja	Safecare Biotech (Hangzhou) Co., Ltd.	Hangzhou	CN	NIC GmbH	Osnabrück	DE	Details	POC (ohne Gerät)	97,04	92,59 - 99,19	99,44	96,94 - 99,99
AT027/21	Multi-Respiratory Virus Antigen Test Kit(Swab) (Influenza A+B/ COVID-19)	Ja	Safecare Biotech (Hangzhou) Co., Ltd.	Hangzhou	CN	NIC GmbH	Osnabrück	DE	Details	POC (ohne Gerät)	97,04	92,59 - 99,19	99,44	96,94 - 99,99
AT376/21	COVID-19 Antigen Rapid Test Kit (Saliva)	Nein	Safecare Biotech (Hangzhou) Co., Ltd.	Hangzhou	China	NIC GmbH	Osnabrück	DE	Details	POC (ohne Gerät)	98,50	94,67-99,82	99,45	96,99-99,99

医疗器械生产许可证

许可证编号：浙食药监械生产许 20140151 号

企业名称：杭州赛凯生物技术有限公司

生产地址：杭州市余杭区仓前街道海曙路 18 号 2 号楼
203 室

法定代表人：唐燕芬

生产范围：第二类:6840-体外诊断试剂***

企业负责人：裘科斌

住 所：杭州市余杭区仓前街道海曙路 18 号 2 号楼
203 室

发证部门：浙江省药品监督管理局

有效期限：至 2024 年 8 月 12 日 发证日期：2019 年 8 月 3 日

ADVANTAGES

1. Easy to collect samples` simple operation without professional equipment.
- 2.The test results are available in 15 minutes, and the test results are clearly visible.
- 3.Convenient transportation and low price,higher accuracy.
- 4.Suitable for large-scale rapid

ADVANTAGE



SAFECARE
COVID-19 Ag



Clinical Evaluation Report

1. Purpose:

In order to verify the clinical performance of the improved test

2. Material:

Fresh negative COVID-19 samples were collected from the hospital and validated by PCR.
Fresh positive COVID-19 samples were collected from CDC and validated by PCR.
Product used: COV20082701

3. Protocol:

3.1 Sample Size:

Positive Sample: >100
Negative Sample: >150

3.2 Sample's collection:

Nasal swab specimen or nasopharyngeal swab specimen can be used by Safecare COVID-19 Antigen Rapid Test Kit (Swab) to detect the presence of SARS-CoV-2 antigen in the specimen. Internal validation studies based on Matrix Equivalency were performed on both nasal swab specimens and nasopharyngeal swab specimen, no statistic difference was observed among those specimens. All swabs were randomly blinded and assigned to testing with PCR assay as the comparator method for this study.

3.3 Sample Entry criteria:

The samples from hospital outpatient screening cases and COVID-19 Patients who presented within 7 days of symptom onset;
Samples of people that gender and age are not limited.

3.4 Sample Exclusion criteria:

Samples without PCR test results;
Samples that the quantity is not enough to complete the test;
Samples with failed test results (C-line has not appeared);
Freeze samples repeatedly.

3.5 Comparator method

All samples was confirmed by PCR.
PCR tests used from Sansure Biotech Inc. and performed on ABI7500.

4. Operator and site:

Site 1:
Study Site Info: ZHEJIANG PROVINCIAL CENTER FOR DISEASE CONTROL AND PREVENTION

Researcher: Dr. ZHANG LEI
Lab Name (or Hospital or Doctor's office): Immunology Laboratory
Address: 3399 Binsheng Road, Binjiang District, Hangzhou City, Zhejiang Province

Site 2:
Study Site Info: THE FIRST AFFILIATED HOSPITAL ZHEJIANG UNIVERSITY SCHOOL

OF MEDICINE

Researcher: Dr. Xuwei
Lab Name (or Hospital or Doctor's office): Immunology Laboratory
Address: No. No. 366, Wutong Road, Xihu District, Hangzhou, Zhejiang

5. Statistical methods:

5.1 Statistical of test result

		Referencing reagent Test		Total
		Positive	Negative	
Research Reagent	Positive	A	B	A+B
	Negative	C	D	C+D
Total		A+C	B+D	A+B+C+D

Percent Positive Agreement = $A/(A+C)*100\%$

Negative Percent Agreement = $D/(B+D)*100\%$

Overall Agreement = $(A+D)/(A+B+C+D)*100\%$

5.2 Statistical of Specimens correlation

Record and statistics the correlation of antigen-positive/PCR-positive and antigen-negative/PCR-positive samples with the Ct values of the PCR to determine the mean Ct value of antigen-positive samples

6. Evaluation indicators:

The total PPA should be no less than 80%.
The total NPA should be no less than 90%.

7. Statistical results of the clinical evaluation

7.1 Test result

		Referencing Method (RT-PCR)		Total
		Positive	Negative	
Test-strip	Positive	131	1	132
	Negative	4	179	183
Total		135	180	315

7.2 Statistical results

Project	Value	Percentage (95% confidence interval)
Relative Sensitivity-PPA (%)	131/135	97.04% (92.59%~99.19%)
Relative Specificity-NPA (%)	179/180	99.44% (96.94%~99.99%)
Overall Agreement (%)	310/315	98.41% (96.33%~99.48%)

7.3 Kappa consistency test

Calculate the Kappa value and standard error; test hypothesis is established for Kappa: H0: $k = 0$, Kappa value comes from 0 population, H1: $k > 0$, Kappa value comes from non-0 population, $\alpha = 0.05$.

Project	Value
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Kappa Value	0.9675, Good consistency.
Standard Error Se(K)	0.0144
95% Confidence Interval	0.9392~0.9958
Standard Error Se0(K)	0.056
Test Value Z	Z=17.1747 Probability value P=0.0000
Test Result	P<0.05 refuse H0, Kappa values come from populations other than 0.

7.4 Specimens correlation

The performance of Safecare COVID-19 Antigen Rapid Test Kit (Swab) with positive results stratified by the comparator method (Ct) counts were collected and assessed to determine the correlation of assay performance to the Ct.

Safecare COVID-19 Antigen Rapid Test	Comparator Method (POS by Ct \leq 40)	
	Ct < 28	Ct \geq 28
Positive	130	1
Negative	0	4
Total	130	5
Positive Agreement (95% CI)	100.00% (97.20%~100.00%)	20.00% (0.51%~71.64%)

Based on above table, the positive agreement of the Safecare COVID-19 Antigen Rapid Test Kit (Swab) is higher with samples of a Ct count < 28.

8. Conclusion

A side-by-side comparison was conducted using the research reagent and referencing reagent. Compare with RT-PCR:
The Relative Sensitivity is 97.04%, the Relative Specificity is 99.44%, the Overall Agreement is 98.41%.
In summary, The study showed that there is a high coincidence rate between the test-strip and RT-PCR, and have the equivalence on the clinical usage.

Reporter: Wei Lihua Date: 2020.12.16

Safecare Biotech (Hangzhou) Co.,Ltd



COMPANY PROFILE

Safecare Biotech(Hangzhou)Co.,Ltd. is a premier and professional manufacturer and supplier of rapid diagnostic test kit with 165 workers, 8000 ㎡ non-dust workshop, a professional R&D team who has 15years experience in rapid test field, advanced automate machines and professional R&D team ensure the high quality, speedy delivery and large production capacity. SAFECARE earned the reputation as a premium brand known for exceptional quality, consistency and innovation.

Our product ranges drug of abuse and alcohol test in urine and saliva, Food Safety test, Women Health test, Infectious Diseases test, Cardiac Markers test and Tumor Markers test with CE & ISO approved. Our drugs tests are even US FDA 510K and CLIA Waived approved which can ensure you high and stable quality.

The available rapid test kits are designed for health-care professionals in laboratories, rehabilitation centers, treatment centers, hospitals, clinics, private practices, human resource departments, mining companies, construction companies and the judicial system. All the products are produced strictly under TUV ISO13485:2016 quality management system for medical devices.

With our highly trained staffs and good service, we are committed to provide