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EU CE Certification

Emergency Use Authorization

WHO-Emergency Use Listing



Notificatie van in-vitro diagnostische medische hulpmiddelen impliceert dat de fabrikant.

Met de CE-conformiteitsmarkering heeft aangebracht op de desbetreffende producten alvorens deze in een EU-lidstaat in de handel te brengen. Zodende garandeert Lotus NI. B.V. dat de in-vitro diagnostica voldoen aan de essentiële eisen zoals opgenomen in bijlage I bij Richtlijn 98/79/EG (en in het daarmee corresponderende onderdeel I bij het beslut)

Volledigheidshalve wijzen wij u erop dat een in-vitro diagnosticum moet voldoen aan de eisen uit het BIVD. Het BIVD is gebaseerd op Richtlijn voor in-vitro diagnostick, 98/79/EG. Met name wijzen wij u op de Nederlandse-taaleis zoals deze in Nederland geldt, de eisen voor het ter beschikking houden van de technische documentatie en de plicht tot het hebben van een Post Marketing Sürveillance- en vigilantbesysteem.

Tot slot merk ik op dat met uw notificatie - de administratieve notificatie als fabrikant - en deze brief geen sprake is van een oordeel over de status of kwalificatie van uw product notificering betekenn niet dat daadwerkelijk sprake is van een in-vitro diagnosticum in de zin van de onderhavige wet- en regelgeving. In voorkommende gevallen kan de Inspectie Gezondheidszorg on Juegol (1007), belast met het toezicht op de naleving van het bij of krachters de wet bepaalde, een standgant innemen over de status van een product, waarbij het volgens vaste jurisprudentie uitendelijk aan de nationale rechter is om te bepalen of een product onder de definitie van in-vitro diagnosticum valt.

De Minister voor Medische Zorg en Sport, namens deze,

Afdelingshoodd
Farmatec



Acknowledgment Letter

9/11/2020



Dear Hongyan Li

The Center for Devices and Radiological Health (CDRH) of the Food and Drug Administration (FDA) has received your submission. This submission has been assigned the unique document control number below. All future correspondence regarding this submission should be identified prominently with the number assigned and should be submitted to the Document Control Center at the above letterhead address. Failure to do so may result in processing delays. If you believe the information identified below is incorrect, please contact the Office of Product Evaluation and Quality (OPEQ) submission support at (301) 796-5640 or OPEQSubmissionSupport@fda.hhs.gov.

Submission Number: EUA202733 Received: 911/2020 Applicant: DySBIO (Tianjin) Biotechnology Co., Ltd. Device: SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold)

We will notify you when the review of this document has been completed or if any additional information is required. For information about CDRH review regulations and policies, please refer to http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/default.htm,

Sincerely yours,

Center for Devices and Radiological Health

U.S. Food & Drug Administrat 10903 New Hampshire Avenu Silver Spring, MD 20993 www.fda.gov



SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold) Clinical

Evaluation Report

Product name: SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold)

Packing specification: 20 tests/box

Clinical evaluation category: Comparison with Real-Time Fluorescent RT-PCR Kit for

Detecting 2019-nCoV produced by

Clinical evaluation place: Beijing Ditan Hospital Capital Medical University, China

Start date: June 13, 2020 End date: June 18, 2020

Operator (signature): Liu Minjuan, LiJing, Nian Yaxuan

Statistics (signature): Tian Hui Application company (seal):

Contact: Li Hongyan

Phone: -86-022-65378415

Report date: June 21, 2020

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3.2.1 Introduction:

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped non-segmented positive-sense RNA virus. It is the cause of coronavirus disease (COVID-19), which is contagious in humans. SARS-CoV-2 has several structural proteins including spike (S), envelope (E), membrane (M) and nucleocapsid (N).

The antigen is generally detectable in upper respiratory samples during the acute phase of infection. Positive results indicate the presence of viral antigens, but clinical correlation with patient history and other diagnostic information is necessary to determine infection status. Positive results do not rule out bacterial infection or co-infection with other viruses. The agent detected may not be the definite cause of disease.

3.2.3 Detection principle:

The Kit uses an immunocapture method, it is designed to detect the presence or absence of SARS-CoV-2 nucleocapsid proteins in oral fluid samples from patients with signs and symptoms of infection who are suspected of COVID-19..

Key components: the anti-nucleocapsid protein antibody and chicken IgY labeled by colloidal gold, the nitrocellulose membrane coated with anti-nucleocapsid protein antibody, and goat anti-chicken IgY antibody.

When specimens are processed and added to the test device, SARS-CoV-2 antigens present in the specimen bind to antibodies conjugated to colloidal gold in the test strip. The antigen-conjugate complexes migrate across the test strip to the reaction area and are captured by a line of antibodies bound on the membrane. A color band will show up when antigen-conjugate is deposited at the Test "T" position and the Control "C" position on the device.

3.2.4 Purpose:

Evaluation the clinical performance of the SARS-CoV-2 Antigen Rapid Test Kit for accurately detection of SARS-CoV-2 antigen in human oral fluid.

3.2.5 Testing management:

During the trial, the main investigator is responsible for the coordination and management of the entire clinical trial, and the main participants are responsible for the main trial work. During the clinical trial, the main researcher supervises the quality control of the testing laboratory. Any problems found in the test must be contacted with the main researcher in time and appropriate measures should be taken. The final test results are statistically analyzed by the person in charge of statistics, and the main investigator confirmed and wrote the report.



3.2.6 Methods:

Synchronous blind test and methodological comparison design.

The oral fluid and throat swab samples were collected by hospital professional medical staff in accordance with the sampling methods of SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold) and Real-Time Fluorescent RT-PCR Kit for Detecting 2019-nCoV. The oral fluid and throat swab samples are blindly numbered and grouped by the JOYSBIO editor. Oral fluid samples are divided into one group, throat swab samples are divided into another group, and then tested by JOYSBIO laboratory inspectors.

3.2.7 Discussion and Conclusion

Results:

In this clinical trial, oral fluid specimens were obtained from Beijing Ditan Hospital Capital Medical University and tested with the SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold) and the comparator device Real-Time Fluorescent RT-PCR Kit for Detecting 2019-nCoV produced by

Statistical analysis was performed to

calculate the positive agreement rate and negative agreement rate.

In this study, a total of 122 oral fluid samples were obtained for clinical performance evaluation by comparing the investigational device, the SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold), and reference reagent device. The oral fluids prospectively collected from individual symptomatic patients who were suspected of COVID-19. No duplicate samples were selected. The gender ratio was 76 males (62.30%) and 46 females (37.70%). The age of enrolled patients ranged from 10 to 80years. There were 82 negative SARS-CoV-2 antigen cases, total of 67.21% of the subjects and 40 positive samples, (32.79%). In June 2020, 520 PCR (Real-time fluorescent RT-PCR Kit for Detecting 2019-nCoV,) samples were collected prospectively from the Beijing Ditan Hospital Capital Medical University.

These 122 samples were tested both investigational device and comparator device and results were compared. The results showed that the clinical sensitivity and specificity 95.00% and the was 98.78%.

Conclusion:

This clinical trial by comparing the results obtained by testing potential SARS-CoV-2 positive samples with investigational device and EUL granted device demonstrated that the SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold) devices performs as it is claimed in the clinical. The

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detection sensitivity for the SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold) of oral fluid was 95.00%, and the specificity was 98.78%. The results showed that the investigational device, the SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold), meets the needs of clinical testing.

3.2.8 Main Content

General design

This test uses a synchronous blind test and methodological comparison design. In order to eliminate the possible impact of the subjective biases and personal preferences of researchers on the test results during the clinical trial process, this test uses a blind test. That is, the test personnel in this test do not know the specific information of the sample, and the clinical information of the sample may not be released until the end of the test. After the samples were enrolled, the samples were coded by the blind editor authorized by the clinical trial, in which the blind editor was not involved in the test operation of the clinical trial. Testing personnel shall test the coded sample according to the reagent test specification. In the process of test operation, clinical test researchers should strictly follow the requirements of the product specification for test operation and interpretation check, and the results obtained in the test process should be truthfully recorded in the data collection table.

For the detection of SARS-CoV-2 Antigen, The oral fluid and throat swab samples were collected by hospital professional medical staff in accordance with the sampling methods of SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold) and Real-Time Fluorescent RT-PCR Kit for Detecting SARS-CoV-2. The oral fluid and throat swab samples are blindly numbered and grouped by the JOYSBIO editor. Oral fluid samples are divided into one group, throat swab samples are divided into another group, and then tested by JOYSBIO laboratory inspectors. Among them, there are 3 JOYSBIO laboratory inspectors.

Measures to reduce and avoid bias

Subjects were screened strictly according to the blind grouping of the clinical trial protocol to reduce the selection bias.

Prior to the start of the trial, the sponsor trained the lab operators to correctly perform the tests and follow the trial protocol.



Clinical sample related requirements

1) DOs and DON'Ts of Sample Collection

- Do collect sample as soon as possible after onset of symptoms.
- Do test sample immediately.

2) Sample storage

- Specimen Transport and Storage
- Freshly collected specimens should be processed within 1 hour.
- It is essential that correct specimen collection and preparation methods be followed.

Clinical sample selection

1) Inclusion criteria

Sample inclusion criteria: the sample should be a sample with clearly recorded source, including different age, gender and other factors. The collection and treatment of samples are in accordance with the reagent specification or relevant regulations. Sample information should be complete, including age, sex, sample collection date, clinical diagnosis such as confirmation or exclusion of SARS-CoV-2 infection.

2) Exclusion criteria

- > Samples that are unable to complete the test process human factors (sample contamination during operation).
- > Samples were contaminated with bacteria or/and bleeding gums.
- > Contains more food residue.
- > Samples not kept at the requirement conditions.

3.2.9 Quality control

Definition

Quality control is defined as the operation of techniques and activities, such as monitoring, under the quality assurance system to verify that the research quality meets the requirements. Quality control must be applied at every stage of data processing to ensure that all data is trusted and properly located.

1) Study monitoring

During the outbreak, authorized and qualified inspectors will conduct regular remote primary data checks according to the monitoring plan to verify compliance with protocols and regulations and assist investigators.



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2) Laboratory quality control

The laboratory of the testing shall establish a unified test index, standard operating procedures and quality control procedures.

3) Quality control of reagent testing process

In each test, the control line shall have red strip (qualified quality control). If the control line does not have red strip (unqualified quality control), the cause shall be found out and retested until the quality control result is qualified, so as to ensure the reliability and stability of the system.

4) Qualification of researchers

The researchers participating in the clinical trial must have the specialty, qualification and ability of the clinical trial, and pass the qualification examination. The personnel requirements should be relatively fixed.

3.2.10 Reagents and instruments for clinical research

The information of reagents for test is shown in Table 1:

Table 1 Reagent Information

	Assessment reagent	Reference reagent
Reagent Name	SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold)	Real-Time Fluorescent RT-PCR Kit for Detecting 2019-nCoV
Specification	20 tests/box	50 tests/box
Company	JOYSBIO (Tianjin) Biotechnology Co., Ltd.	BGI BIOTECHNOLOGY (WUHAN) CO.,LTD
Lot Number	2020031204	20200502
Expiration	2021.03.11	2020.11.01
Preserrvation Condition	2~30℃	<-18°C
Registration Number	/	国械注准: 20203400060

3.2.11 Statistical analysis method of clinical trial data

Use SPSS16.0 statistical software or the following formula for statistical analysis.

Table 2 Consistency data analysis

Experimental Reagent	Reference Re	agent Group	
Group	Positive	Negative	Sum
Positive	a	b	a+b
Negative	С	d	c+d



Sum	a+c	b+d	a+b+c+d
Sensitivity		a/(a+c)	-
Specificity		d/(b+d)	
Accuracy	ACC/OPA=	(a+d)/(a+b+c+c	d)*100%
Kappa	(a+b)	2(ad-bc) (b+d) +(a+c)(c	+d)
95%CI	Norn	nal approximat	ion

3.2.12 Clinical Trial Results and Analysis

Overall distribution of samples

In this test, a total of 122 cases of oral fluid specimens were enrolled in the consistency comparison test of experimental reagent and reference reagent, and 0 cases of repeated samples were excluded for statistical analysis, including 82 negative samples (67.21%), 40 positive samples (32.79%).



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Table 3 Proportion and number distribution of clinical trials

Sample	oral fluid sp	ecimens
Sumple	Negative	Positive
Number of cases	82	40
Ratio	67.21%	32.79%
Number of total cases Positive	12	22

Sex and age distribution of samples

A total of 122 oral fluid specimens were enrolled in the consistency comparison test of experimental reagent and reference reagent, including 76 males and 46 females.

The specific distribution of samples is shown in the following table:

Table 4 Sex and age distribution

Index	Sample type	Oral fluid specimens
Number of samples	Total	122
Sex	Male (N,%)	76 (62.30%)
	Female (N,%)	46 (37.70%)
Age (y)	X±SD	40.68±20.09
	Min-Max	10 ~80

Consistency analysis of test results

1) Consistency comparison of experimental reagent and reference reagent Overall Clinical Study

In this study, 122 oral fluid specimens were obtained in the clinical performance study to compare SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold) (evaluating device for antigen testing) and the Real-Time Fluorescent RT-PCR Kit for Detecting 2019-nCoV(BGI BIOTECHNOLOGY). The clinical performance data of the SARS-CoV-2 test results were analyzed, and 98 samples were tested positive by the SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold). There were 4 samples in which the SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold) was positive and the BGI device was negative. There were 10 samples in which the SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold) was negative and the reference reagent was positive. There were 408 samples with negative test results in reference reagent. Hence, the sensitivity and specificity were 95.00% and 98.78% respectively.



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Table 8 Overall Clinical Study Results

Reagent test results	PCR Co	mparator	Subtotal
reagent test results	positive	negative	Suototai
positive	38	1	39
negative	2	81	83
Subtotal	40	82	122

Positive Percent Agreement (PPA)= 38/40(95.00%) (95%CI: 83.1%~99.4%)
Negative Percent Agreement (NPA)= 81/82(98.78%) (95%CI: 93.4%~100.0%)
Accuracy=(38+81)/122×100%=97.54%
Kappa=2×3076/6518=0.94>0.5

2) Test Reliability

- The collection and preservation methods of all test samples are reliable.
- > The operators have received special training throughout the test process to ensure the reliability of the test results.
- ➤ When conducting clinical trials, the tests shall be conducted in strict accordance with the requirements of laboratory quality control and clinical trial program in clinical hospitals. The results were analyzed by experienced researchers to ensure the reliability of clinical trials.

3) Discussion and Conclusion

In this test, a total of 122 oral fluid specimens samples were enrolled for the consistency comparison of experimental reagent and reference reagent, and no duplicate samples were selected. The sex ratio was distributed among 76 males (62.30%) and 46 females (37.70%). The age of enrolled patients ranged from 10 to 80 years. There were 82 cases with negative SARS-CoV-2 Ag, accounting for 67.21% and 40 positive samples, accounting for 32.79%. In June 2020, 122 PCR (Real-time fluorescent RT-PCR Kit for Detecting 2019-nCoV,) samples from the Beijing Ditan Hospital Capital Medical University.

According to the consistency analysis of 122 samples, clinical study results showed that the detection sensitivity was 95.00% and the specificity was 98.78%.

Conclusion:

This clinical trial has performed a full analysis of the experimental reagents through methodological comparisons, and the results all meet the criteria for clinical evaluation. All the results showed that SARS-CoV-2 Antigen Rapid Test Kit (Colloidal Gold) meet the needs of clinical test.



nCoV, BGI) were collected in June 2020 from the Beijing Ditan Hospital Capital Medical University. Basic information of positive and negative samples of SARS-CoV-2, 122 cases verified by PCR (Real-Time Fluorescent RT-PCR Kit for Detecting 2019-

				Dasic	Number of	Number of Experimental reagent Assessment test i	eagent Assess	Experimental reagent Assessment test results		PCR test results	results	
ĪŌ.	Sample ID	Gender	Age	Physiological state	to collect samples after symptoms	Sample type	Collection date	Determination	Sample type	Collection date	ermination	CT
1	DT-S10036	male	42	cough	0	oral fluid	2020/6/18	+	throat swab (TS)	2020/6/18	+	22
2	DT-S 10035	male	54	myalgia	0	oral fluid	2020/6/13	+	throat swab (TS)	2020/6/13	+	24
ω	DT-S 10073	male	23	fever, fatigue	0	oral fluid	2020/6/15	+	throat swab (TS)	2020/6/15	+	22
4	DT-S 10048	female	55	cough	0	oral fluid	2020/6/14	+	throat swab (TS)	2020/6/14	+	23
5	DT-S 10182	male	39	fever	0	oral fluid	2020/6/13	+	throat swab (TS)	2020/6/13	+	22
6	DT-S 10157	male	29	cough	0	oral fluid	2020/6/13	+	throat swab (TS)	2020/6/13	+	23
7	DT-S 10159	female	40	fever	0	oral fluid	2020/6/14	+	throat swab (TS)	2020/6/14	+	24
∞	DT-S 10170	male	36	fever, runny nose	0	oral fluid	2020/6/16	+	throat swab (TS)	2020/6/16	+	22
9	DT-S 10037	female	20	cough	0	oral fluid	2020/6/17	+	throat swab (TS)	2020/6/17	+	23
10	DT-S 10063	female	31	cough	0	oral fluid	2020/6/17	+	throat swab (TS)	2020/6/17	+	24
11	DT-S 10141	female	33	myalgia	0	oral fluid	2020/6/15	+	throat swab (TS)	2020/6/15	+	22
12	DT-S 10001	female	51	fever, fatigue	0	oral fluid	2020/6/16	+	throat swab (TS)	2020/6/16	+	23
13	DT-S 10190	male	52	cough	1	oral fluid	2020/6/14	+	throat swab (TS)	2020/6/14	+	23
14	DT-S 10200	male	46	fever	1	oral fluid	2020/6/13	+	throat swab	2020/6/13	+	22



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34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15
DT-S 10131	DT-S 10011	DT-S 10135	DT-S 10092	DT-S 10021	DT-S 10101	DT-S 10020	DT-S 10082	DT-S 10046	DT-S 10105	DT-S 10121	DT-S 10023	DT-S 10027	DT-S 10040	DT-S 10164	DT-S 10007	DT-S 10187	DT-S 10138	DT-S 10059	DT-S 10155
male	male	female	female	male	female	male	female	male	male	female	male	male	female	male	male	female	male	female	male
38	30	34	64	55	25	19	67	33	29	25	65	74	42	10	63	60	46	66	60
myalgia	cough	cough	fever, cough	fever, cough	myalgia	fever, fatigue	myalgia	myalgia	cough	fever, runny nose	fever	fever, fatigue	fever, fatigue	fever, fatigue	fever, runny nose	fever, fatigue	myalgia	fever, fatigue	fever
2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid
2020/6/16	2020/6/15	2020/6/14	2020/6/13	2020/6/14	2020/6/15	2020/6/17	2020/6/18	2020/6/16	2020/6/15	2020/6/14	2020/6/13	2020/6/18	2020/6/16	2020/6/17	2020/6/15	2020/6/16	2020/6/13	2020/6/14	2020/6/14
+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	-
throat swab	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	(TS)									
2020/6/16	2020/6/15	2020/6/14	2020/6/13	2020/6/14	2020/6/15	2020/6/17	2020/6/18	2020/6/16	2020/6/15	2020/6/14	2020/6/13	2020/6/18	2020/6/16	2020/6/17	2020/6/15	2020/6/16	2020/6/13	2020/6/14	2020/6/14
+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-
24	24	23	25	23	24	24	23	23	24	22	23	24	23	24	22	24	23	22	24



~	7	6	5	4	ω	2	_			NO.		40	39	38	37	36	35	
DT-S 10153	DT-S 10049	DT-S 10071	DT-S 10083	DT-S 10122	DT-S 10192	DT-S 10149	DT-S 10075			Sample ID		DT-S 10142	DT-S 10167	DT-S 10116	DT-S 10198	DT-S 10033	DT-S 10026	
male	female	male	male	male	male	male	male			Gender		male	male	male	female	male	female	
13	59	40	31	28	30	12	16			Age		53	18	19	75	57	49	
cough	fever	cough	fever, fatigue	myalgia	cough	cough	fever	state	Physiological		Basic infor	cough	myalgia	myalgia	fever, cough	cough	cough	
0	0	0	0	0	0	0	0	after symptoms appear	collect samples	Number of days to	nation on neg	3	3	3	3	2	2	
oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid		Sample type	Experimental	Basic information on negative samples of SARS-CoV-2 AG	oral fluid						
2020/6/17	2020/6/17	2020/6/15	2020/6/16	2020/6/15	2020/6/14	2020/6/13	2020/6/14	date	Collection	reagent Asses	of SARS-C	2020/6/13	2020/6/14	2020/6/15	2020/6/13	2020/6/18	2020/6/14	
ı		+	1	1	1	1			Determination	Experimental reagent Assessment test results	5V-2 AG	+	+	+	+	+		l
throat swab	throat swab (TS)		Sample type			throat swab (TS)	(61)											
2020/6/17	2020/6/17	2020/6/15	2020/6/16	2020/6/15	2020/6/14	2020/6/13	2020/6/14	date	Collection	PCR test results		2020/6/13	2020/6/14	2020/6/15	2020/6/13	2020/6/18	2020/6/14	
					1				Determination	t results		+	+	+	+	+	+	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		CT			24	25	25	24	23	25	



28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9
DT-S 10010	DT-S 10096	DT-S 10133	DT-S 10161	DT-S 10180	DT-S 10193	DT-S 10006	DT-S 10189	DT-S 10134	DT-S 10231	DT-S 10100	DT-S 10024	DT-S 10128	DT-S 10084	DT-S 10038	DT-S 10186	DT-S 10017	DT-S 10118	DT-S 10069	DT-S 10125
male	female	female	male	female	male	female	male	male	male	male	male	female	female	male	male	female	male	female	male
78	39	25	44	54	74	78	16	37	22	12	23	27	38	11	71	78	28	28	51
fever	cough	cough	cough	myalgia	fever	cough	fever, runny nose	fever, fatigue	fever	fever, fatigue	myalgia	cough							
1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid							
2020/6/15	2020/6/14	2020/6/15	2020/6/14	2020/6/13	2020/6/15	2020/6/16	2020/6/18	2020/6/18	2020/6/17	2020/6/15	2020/6/15	2020/6/17	2020/6/16	2020/6/13	2020/6/15	2020/6/17	2020/6/14	2020/6/16	2020/6/13
•	·	1		1	1	1	1		1			ı			ı		ı		
throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)							
2020/6/15	2020/6/14	2020/6/15	2020/6/14	2020/6/13	2020/6/15	2020/6/16	2020/6/18	2020/6/18	2020/6/17	2020/6/15	2020/6/15	2020/6/17	2020/6/16	2020/6/13	2020/6/15	2020/6/17	2020/6/14	2020/6/16	2020/6/13
-	,				1		1		1				-	-	,	1			
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							



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48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29
DT-S 10112	DT-S 10012	DT-S 10005	DT-S 10104	DT-S 10108	DT-S 10030	DT-S 10102	DT-S 10099	DT-S 10156	DT-S 10098	DT-S 10139	DT-S 10022	DT-S 10129	DT-S 10067	DT-S 10123	DT-S 10163	DT-S 10173	DT-S 10175	DT-S 10041	DT-S 10115
female	male	male	female	female	male	female	female	male	female	male	male	female	female						
14	14	16	60	32	12	79	61	35	24	49	44	80	79	26	16	61	80	21	50
fever, cough	fever	fever	fever, runny nose	fever, runny nose	fever, runny nose	cough	fever, runny nose	fever	cough	cough	cough	fever	cough	fever, runny nose	cough	fever, fatigue	cough	cough	myalgia
2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid
2020/6/14	2020/6/14	2020/6/15	2020/6/13	2020/6/13	2020/6/14	2020/6/18	2020/6/16	2020/6/15	2020/6/13	2020/6/16	2020/6/15	2020/6/14	2020/6/16	2020/6/15	2020/6/17	2020/6/15	2020/6/13	2020/6/18	2020/6/16
-	-	-				•							-		-		-		1
throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)
2020/6/14	2020/6/14	2020/6/15	2020/6/13	2020/6/13	2020/6/14	2020/6/18	2020/6/16	2020/6/15	2020/6/13	2020/6/16	2020/6/15	2020/6/14	2020/6/16	2020/6/15	2020/6/17	2020/6/15	2020/6/13	2020/6/18	2020/6/16
-	,												-		-		-		1
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



Vertrauen verpflichtet

oral fluid 2020/6/13 - throat swab	oral fluid 2020/6/15 - throat swab	oral fluid 2020/6/14 - throat swab	oral fluid 2020/6/13 - throat swab	oral fluid 2020/6/13 - throat swab	oral fluid 2020/6/15 - throat swab	oral fluid 2020/6/16 - throat swab	oral fluid 2020/6/15 - throat swab	oral fluid 2020/6/14 - throat swab	oral fluid 2020/6/14 - throat swab	oral fluid 2020/6/16 - throat swab	oral fluid 2020/6/17 - throat swab	oral fluid 2020/6/14 - throat swab	oral fluid 2020/6/13 - throat swab	oral fluid 2020/6/16 - throat swab	oral fluid 2020/6/14 - throat swab	oral fluid 2020/6/14 - throat swab	oral fluid 2020/6/17 - throat swab	oral fluid 2020/6/15 - throat swab	()
2 oral																			
fever, cough	cough	fever	fever	fever	cough	fever, fatigue	myalgia	cough	fever, runny nose	fever, runny nose	fever, runny nose	myalgia	myalgia	fever, runny nose	cough	cough	myalgia	fever, runny nose	
49	37	16	57	e 16	e 20	42	e 25	19	21	76	e 73	30	e 74	e 34	33	e 59	39	25	
DT-S 10053 male	DT-S 10151 male	DT-S 10085 male	DT-S 10094 male	DT-S 10076 female	DT-S 10029 female	DT-S 10114 male	DT-S 10124 female	DT-S 10177 male	DT-S 10109 male	DT-S 10080 male	DT-S 10188 female	DT-S 10179 male	DT-S 10168 female	DT-S 10126 female	DT-S 10031 male	DT-S 10054 female	DT-S 10136 male	DT-S 10119 male	
68 DT:	67 DT-	66 DT-	65 DT-	64 DT.	63 DT:	62 DT-	61 DT:	60 DT.	59 DT-	58 DT-	57 DT-	56 DT	55 DT	54 DT-	53 DT.	52 DT-	51 DT-	50 DT.	



82 D	81 D	80 D	79 D	78 D	77 D	76 D	75 D	74 D	73 D	72 D	71 D	70 D	69 D
DT-S 10196	DT-S 10176	DT-S 10103	DT-S 10062	DT-S 10197	DT-S 10154	DT-S 10132	DT-S 10025	DT-S 10127	DT-S 10111	DT-S 10130	DT-S 10148	DT-S 10008	DT-S 10165
male	male	male	male	female	male	female	male	female	male	female	female	male	female
28	18	23	24	28	52	24	67	32	45	15	56	30	79
fever	fever	myalgia	fever	myalgia	cough	myalgia	fever	fever	fever	fever	fever, fatigue	myalgia	cough
5	5	4	4	4	4	4	3	ω	3	3	ယ	3	3
oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid	oral fluid
2020/6/14	2020/6/13	2020/6/14	2020/6/16	2020/6/18	2020/6/15	2020/6/16	2020/6/15	2020/6/13	2020/6/14	2020/6/13	2020/6/17	2020/6/15	2020/6/14
ı	-	,	•		•				-	•			-
throat swab	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)	throat swab (TS)								
2020/6/14	2020/6/13	2020/6/14	2020/6/16	2020/6/18	2020/6/15	2020/6/16	2020/6/15	2020/6/13	2020/6/14	2020/6/13	2020/6/17	2020/6/15	2020/6/14
	-	-	-	-	-	-	-	-	-	-	-	-	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A