

Edinburgh Genetics ActivXpress+ COVID-19 Antigen Complete Testing Kit Complete test kit Edinburgh Genetics ActivXpress + COVID-19 Antigen

SARS-CoV-2 antigen IVD, kit. immunochromatographic test (ICT), rapid

The complete Edinburgh Genetics ActivXpress + COVID-19 Antigen test kit is intended for the qualitative detection of coronavirus 2-associated severe acute respiratory syndrome (SARS-CoV-2) antigens in a clinical specimen.

A positive test result should be further confirmed by quantitative testing, a negative result does not rule out SARS-CoV-2 infection. This kit is intended for use by a healthcare professional specially trained in in vitro diagnostic procedures.

The new companyings belong to the genus 9 COVID-19 is an acute respiratory intertious disease. Currently the main source of intertion is patients interted with the new companyings. asymptomatic infected people can also be a source of infection. Based on the current epidemiological investigation, the incubation period is 1 to 14 days, most often 3 to 7 days. The main symptoms include fever fatigue and dry county to several cases there is a stuffy nose runny nose size thirst invalida and diarrhea. Standard recommendations for prevention the spread of infection include regular hand washing, covering the mouth and nose with coughs and sneezing. Avoid close contact with anyone who shows signs of respiratory diseases such as coughing and sneezing.

The complete Edinburgh Genetics ActivXpress + COVID-19 Antigen test kit is a sandwich quality in vitro immunoassay diagnostic medical device. The kit is intended for the detection of SARS-CoV-2 nucleocapsid antigen in nasopharyngeal, oral and pharyngeal swabs and nasal swabs in patients suspected of being positive for COVID-19. The SARS CoV-2 antigens present in the sample react with the artif SARS-CoV-2 antibody coated particles in the test cassette. The mixture then migrates upward to the membrane by capillary action and reacts with the antibody applied in the test line area. If the sample contains SARS-CoV-2 anticens, a colored line will appear in the test area. If the sample does not contain SARS-CoV-2 anticens, no colored line will appear in the test area, indicating a negative result. To check the correctness of the procedure, a colored line always appears in the control area, which means that the correct sample volume has been added and the membrane has leaked.

- Store the kit at room temperature or refrigerated (2-30 ý)
- Do not freeze

INTERNAL QUALITY CONTROL

Internal controls are part of the test. The colored line in the control area (C) confirms a sufficient sample volume and the correct procedure.

EGCV0101: 1x test cassette, 1x sterilized nasopharyngeal swab, 1x reagent in a dropper bottle EGCV0101A: 10x test cassette, 10x sterilized nasopharynogal swab, 10x reagent in a dropper bottle

EGCV0101B: 20x test cassette, 20x sterilized nasopharyngeal swab, 20x reagent in a dropper bottle

EGCV0101M: 1x test cassette, 1x sterilized swab for swabbing the oral cavity and pharynx, 1x reagent in a dropper bottle

EGCV0101MA: 10x test cassette, 10x sterilized swab for swabbing the oral cavity and pharynx, 10x reagent in a dropper bottle

EGCV0101MB: 20x test cassette, 20x sterilized swab for swabbing the oral cavity and phanynx, 20x reagent in a dropper bottle

EGCV0101N: 1y test cassette, 1y sterilized swah for pasal swah, 1y reapent in a dropper hottle

EGCV0101NA: 10x test cassette, 10x sterilized swab for nasal swab, 10x reagent in a dropper bottle EGCV0101NB: 20x test cassette, 20x sterilized swab for nasal swab, 20x reagent in a dropper bottle

Materials that are needed but not included: Gloves, times

- Do not mix different batches of test cartridges and sample diluents.

Part	Main components
	The test strip contains 2019-nCoV monoclonal antibody and anti-mouse
Test cartridge	IgG polyclonal antibody
Sample diluent	0.05 M Tric-HCI

FUNCTIONAL PARAMETERS Limit of Detection (LoD)

Analytical specificity Cross-reactivity

The detection limit (LoD) of the complete Edinburgh Genetics ActivXpress + COVID-19 Antigen test kit is 5 x 102 pfu / ml.

There is no cross-reactivity with the following pathogens: Coronavirus (HKU1, OC43, NL63, 229E): MERS: influenza A virus (2009H1N1, seasonal H1N1, H3N2, HSN1, H7N9); Influenza B virus (Yamagata, Victoria); respiratory syncydial virus, rhinovirus (group A, B, C); respiratory adenovirus (yas et al., c); respiratory adenovirus et al., c); respiratory et al., c); respiratory et al., c); respirat virus: myconlasma pneumoniae: chlamydia pneumoniae: hemonhiliars

The following common medicines will not interfere with the results of the kit: Oxymetazaolin, dexamethasone, flunisolide, sulfur, Kim Anh, benzocaine, zanamivir, municorio tobramycio potassium debydeographolide succipate aspirio (enterio tablets). Ibnurenteo (oranules) acetaminopheo release tablets

Prozone effect (hook effect)

Performance of the complete Edinburgh Ge	netics ActivXpress + Antigen test kit for nasopharyngeal swabs versus PCR comparato
	PCR comparator

Complete Edinburgh test		PCR comp	Total		
kit Genetics ActivXpress+	Positive			Negative	
COVID-19 Antigen	Ct < 25	Ct 25-30	Ct > 30		
Positive	96	82	0	8	179
Negative	0	2	3	1 263	268
Total	96	84	3	264	447
Sensitivity by value Ct	100%	97,62%	0,0 %		-
Overall sensitivity	97.27 % (96%) IS: 93.74-99.11 %) 99.62% (99%) IS: 97.91-99.99 %) 98.65% (99%) IS: 97.01-99.51 %)				
Specificity					
Accuracy					
Kappa value	0,9721				

Complete Edinburgh test					
kit Genetics ActivXpress+	Positive			Negative	Total
COVID-19 Antigen	Ct <	Ct	0	1	
	25	25-30	t > 30		
Positive	96	79	0	2	177
Negative	0			262	270
Total	96	5		264	447
Sensitivity by value Ct	100%	84 94,05%	3 3 0,0 %		
Overall sensitivity	95,63 % (95% IS: 91,57-98,09 %) 99,24% (95% IS: 97,29-99,91 %)				
Specificity					
Accuracy	97,76% (95% IS: 95,92-98,92 %) 0,9535				
Kappa value					

Complete Edinburgh test		PCR compa	Total		
kit Genetics ActivXpress+	Positive			Negative	
COVID-19 Antigen	Ct < 25	Ct 25–30	c t > 30		
Positive	96	80		2	178
Negative	0	4	3	262	269
Total	96	84	3	264	447
Sensitivity by value Ct	100%	95,24%	0,0 %	-	
Sensitivity	96,17% (95% IS: 92,28-98,45 %)				
Specificity		99,24% (95% IS: 97,29-99,91 %)			
Accuracy	97,99% (95% IS: 96,21-99,08 %)				
Kappa value			0.	9582	<u> </u>

Samples obtained early during the onset of symptoms will contain the highest viral titers. Samples obtained 5 days after the onset of symptoms are more likely to have negative results compared to the RT-PCR test. Insufficient sample, incorrect sample handling and / or transport may lead to a false negative result: therefore, sampling training is highly recommended due to the importance of sample quality for obtaining accurate test results.

Nasonharvnneal swah samnling

Tilt the patient's head 70 * to straighten the passage from the front of the nose.

- Insert a swab with a flexible stem for swabbing the nasopharynx through the nostril parallel to the palate
- The tamon should reach a depth equal to the distance from the nostrils to the outer opening of the ear and must come into contact with the pascobaryout
- CALITION: If nasal sectal deflection or obstruction causes difficulty in obtaining a sample from one postril, use the same swah to collect a sample from the
- Carefully wipe the swab and turn it 3-4 times. Leave the swab in place for a few seconds to absorb the secretion.
- Slowly pull out the swab while rotating it, then immerse it in the reagent bottle.

Sampling with a swab for swabs from the oral cavity and pharynx

Insert the tampon into the back of the pharyrx and tonsils. 2.

CAUTION: Use a swab for oral and pharyngeal swabs for sampling. Wipe the swab over both nasal tonsils and the back of the pharvnx in the mouth, but do not touch the tongue and teeth.

Nasal swab sampling

- Tilt the patient's head 70 " to straighten the passage from the front of the nose.
- Carefully rotate the swab while inserting it no further than about 2 cm into the nostril parallel to the palate until you feel resistance from the nasal shell.
- Wipe the tampon against the nasal wall four times in a rotating motion.

SAMPLE PREPARATION

If reagent is stored in the refrigerator, allow to warm to room temperature (15-30 ÿ).

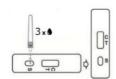
- Open the cap of the tube containing the buffer solution
- Insert the swab into the reagent vial, invert the swab in the vial 5 times and squeeze it 5 times against the wall of the vial. Perform this procedure for one minute.
- Remove the can and can with the dronner can before use

SAMPLE TRANSPORT AND STORAGE

Freshly taken samples should be prepared as soon as possible, but no later than one hour after sampling. The prepared sample can be stored at a temperature of 2-8 9 for a maximum of 8 hours. If it needs to be stored longer, store it at -70 9 and avoid re-thawing.

Allow the test, sample, or reagent to reach room temperature (15-30) for 30 minutes before testing. 9

- Remove the test cartridge from the foil pouch and use it immediately. Place the cartridge on a clean and level surface.
- Using a dropper, transfer 3 drops (approximately 80µl) of reagent sample to the sample well (S) of the test cassette, then start the timer.
- Wait for the colored line (s) to appear. Read the results in 15 minutes. Do not interpret the results after 20 minutes, because the results seen after 20 minutes are

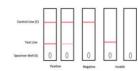


RESULTS

Negative results: One colored line (C) appears in the control area. No line appears in the test area (T)

tive result: Two colored lines appear. One colored line appears in the control line area (C) and another adjacent line appears in the test area (T).

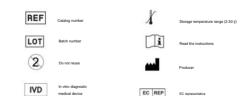
Invalid result: The control line does not appear. The most likely reason is insufficient sample volume or incorrect procedures Check the procedure and repeat the test with a new test. If the problem persists, stop using the test kit immediately and contact your local dis



- This is a single-use in vitro diagnostic respect do not reuse, and do not use products after the expiration date
- Subsequent molecular diagnostic testing should be considered
- Antigen testing results should not be used as the sole basis for diagnosing or excluding SARS-CoV-2 infection or for informing about the status of the infection.
- Negative results do not rule out SARS-CoV-2 infection, especially in those who have been in contact with the virus.
- Positive results suggest the presence of viral antigens, but a clinical correlation with the patient's medical history and other diagnostic information is required to determine the status of the infection.
- Positive results do not rule out bacterial infection or co-infection with other viruses
- This test must be performed by a physician
- Use fresh samples for testing, do not use samples that have been repeatedly frozen and thawed.
- Work at room temperature (15-30 ý). Test cartridges stored at low temperature should be allowed to reach room temperature before opening to prevent
- Do not swallow the desiccant.
- Improper sampling or processing can lead to false negative or false positive results.
- If you have any questions or suggestions regarding the use of this kit, please contact the manufacturer.

 Use the swab and reagent provided with this kit for sampling and processing and do not mix different lots of test cartridge and reagent.
- All samples must be considered potentially infectious and appropriate protective measures must be taken during collection, processing, storage, mixing of samples and testing. Therefore, take protective measures such as wearing gloves and a mask. Dispose of all waste as potentially biohazardous
- Failure to follow the test procedure instructions and intermetation of test results may adversely affect test performance and / or invalid penduct results
- The Edinburgh Genetics Activ/Xpress + COVID-19 Antigen Complete Assay Kit is not intended to detect non-infectious virus during the later stages of virus
- shedding, which can still be detected by PCR molecular assays. Observing results earlier than 15 minutes and later than 20 minutes can lead to incorrect results.
- Saliva and / or mucus contamination can cause false positive results.
- Using an insufficient or excessive amount of reagent can lead to an incorrect result.

CATALOG NUMBER	UNIQUE PRODUCT IDENTIFICATION NUMBER (UDI-DI
EGCV0101	5060774580677
EGCV0101A	5060774580684
EGCV0101B	5060774580691
EGCV0101M	5060774580707
EGCV0101MA	5060774580714
EGCV0101MB	5060774580721
EGCV0101N	5060774580981
EGCV0101NA	5060774581001
EGCV0101NB	5060774580981



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