



February 18, 2022

Qiyi Xie
ACON Laboratories, Inc.
5850 Oberlin Drive, #340
San Diego, CA 92121

Device: Flowflex COVID-19 Antigen Home Test
EUA Number: EUA210494
Company: ACON Laboratories, Inc.
Indication: Qualitative detection of the nucleocapsid protein antigen from SARS-CoV-2 in anterior nasal swab specimens directly from individuals within 7 days of symptom onset or without symptoms or other epidemiological reasons to suspect COVID-19. This test is authorized for non-prescription home use with self-collected anterior nasal swab specimens directly from individuals aged 14 years and older or with adult-collected anterior nasal samples directly from individuals aged 2 years or older.

Dear Qiyi Xie:

On October 4, 2021 based on your¹ request the Food and Drug Administration (FDA) issued an Emergency Use Authorization (EUA) for the Flowflex COVID-19 Antigen Home Test pursuant to Section 564 of the Federal Food, Drug, and Cosmetic Act (the Act) (21 U.S.C. §360bbb-3) for the indication stated in the letter.² Based on your request, FDA granted an update to the Flowflex COVID-19 Antigen Home Test on October 15, 2021.³

On November 5 and 22, 2021, December 4, 2021 and January 18, 2022, FDA received requests from you to amend your EUA. In response to those requests, and having concluded that revising the October 4, 2021, EUA is appropriate to protect the public health or safety under section

¹ For ease of reference, this letter will use the term “you” and related terms to refer to ACON Laboratories, Inc.

² The October 4, 2021, letter authorized the Flowflex COVID-19 Antigen Home Test for the qualitative detection of the nucleocapsid protein antigen from SARS-CoV-2 in anterior nasal swab specimens directly from individuals within 7 days of symptom onset or without symptoms or other epidemiological reasons to suspect COVID-19 infection. This test is authorized for non-prescription home use with self-collected anterior nasal swab specimens directly from individuals aged 14 years and older or with adult-collected anterior nasal samples directly from individuals aged 2 years or older.

³ On October 15, 2021, your request was granted to update the Flowflex COVID-19 Antigen Home Test labeling to; (1) offer a 25 kits/box configuration, (2) update the kit box dimensions (for the 1 and 2 kit/box configurations) and kit box design to incorporate a built-in tube holder, (3) add use of shorter individually wrapped swabs for certain box configurations, and (4) update the Extraction Buffer Tube option that uses a foil seal. FDA posted the update to the web on October 19, 2021.

564(g)(2)(C) of the Act (21 U.S.C. § 360bbb-3(g)(2)(C)), FDA is reissuing the October 4, 2021 letter in its entirety with the amendments incorporated⁴ to authorize the emergency use of your product.⁵ Pursuant to section 564 of the Act, Scope of Authorization (Section II) and Conditions of Authorization (Section IV) of this reissued letter, your product is now intended for the indication above.

On February 4, 2020, pursuant to Section 564(b)(1)(C) of the Act, the Secretary of the Department of Health and Human Services (HHS) determined that there is a public health emergency that has a significant potential to affect national security or the health and security of United States citizens living abroad, and that involves the virus that causes COVID-19. Pursuant to Section 564 of the Act, and on the basis of such determination, the Secretary of HHS then declared that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of the virus that causes COVID-19 subject to the terms of any authorization issued under Section 564(a) of the Act.⁶

FDA considered the totality of scientific information available in authorizing the emergency use of your product for the indication above. A summary of the performance information FDA relied upon is included in the “Flowflex COVID-19 Antigen Home Test Package Insert” Healthcare Provider instructions for use identified below.

Having concluded that the criteria for issuance of this authorization under Section 564(c) of the Act are met, I am authorizing the emergency use of your product, described in the Scope of Authorization of this letter (Section II), subject to the terms of this authorization.

I. Criteria for Issuance of Authorization

I have concluded that the emergency use of your product meets the criteria for issuance of an authorization under Section 564(c) of the Act, because I have concluded that:

⁴ The revisions to the October 4, 2021 letter and authorized labeling include: (1) add use of an optional web-based application (App), the “Flowflex Web App” to offer step-by-step instructions to the individual performing the test which was required to be developed by Condition of Authorization Q of the October 4, 2021 letter to further facilitate results reporting by the individual using the Flowflex COVID-19 Antigen Home Test, (2) add video instructions for end users (adult and child) accessible through the web as required by Condition of Authorization S of the October 4, 2021 letter, (3) add the authorized distributor-branded On/Go One COVID-19 Antigen Home Test used with that distributor’s optional mobile application, the On/Go App, run on compatible smartphones that include the Apple iPhone running Operation System (iOS) 13 or later versions of the OS, and Android Phones running Android10 or later versions, as an authorized brand name, (4) add an additional authorized distributor of the Flowflex COVID-19 Antigen Home Test, (5) update the letter and Fact Sheet for Healthcare Professionals for consistency with language used in more recent authorizations, (6) add Condition of Authorization M. and N. (below), (7) remove Conditions of Authorization Q. and S. from the October 4, 2021 letter and (8) update Condition of Authorization S. (below) to maintain the original 6 month timeline afforded in the October 4, 2021, letter to 2 months.

⁵ For ease of reference, this letter will use the term “your product” to refer to the Flowflex COVID-19 Antigen Home Test, used for the indication identified above.

⁶ U.S. Department of Health and Human Services, *Determination of a Public Health Emergency and Declaration that Circumstances Exist Justifying Authorizations Pursuant to Section 564(b) of the Federal Food, Drug, and Cosmetic Act*, 21 U.S.C. § 360bbb-3. 85 FR 7316 (February 7, 2020).

1. The SARS-CoV-2 can cause a serious or life-threatening disease or condition, including severe respiratory illness, to humans infected by this virus;
2. Based on the totality of scientific evidence available to FDA, it is reasonable to believe that your product may be effective in diagnosing COVID-19, and that the known and potential benefits of your product when used for diagnosing COVID-19, outweigh the known and potential risks of your product; and
3. There is no adequate, approved, and available alternative to the emergency use of your product.⁷

II. Scope of Authorization

I have concluded, pursuant to Section 564(d)(1) of the Act, that the scope of this authorization is limited to the indication above.

Authorized Product Details

Your product is a lateral flow test intended for the qualitative detection of the nucleocapsid protein antigen from SARS-CoV-2 in anterior nasal swab specimens directly from individuals within 7 days of symptom onset or without symptoms or other epidemiological reasons to suspect COVID-19. This test is authorized for non-prescription home use with self-collected anterior nasal swab specimens directly from individuals aged 14 years and older or with adult-collected anterior nasal samples directly from individuals aged 2 years or older. It does not differentiate between SARS-CoV and SARS-CoV-2.

The SARS-CoV-2 nucleocapsid protein antigen is generally detectable in anterior nasal swabs during the acute phase of infection. Positive results indicate the presence of viral antigens, but clinical correlation with past medical 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. Individuals who test positive with your product should self-isolate and consult their doctor as additional testing may be necessary and for public health reporting.

Negative results are presumptive, and confirmation with a molecular assay, if necessary for patient management may be performed. Negative results do not rule out SARS-CoV-2 infection, and should not be used as the sole basis for treatment or patient management decisions, including infection control decisions. Negative results should be considered in the context of an individual's recent exposures, history, and the presence of clinical signs and symptoms consistent with COVID19.

Individuals should provide all results obtained with this product to their doctor or healthcare provider for public health reporting. Doctors or healthcare providers will report all test results they receive from individuals who use the authorized product to relevant public health authorities in accordance with local, state, and federal requirements using appropriate LOINC and

⁷ No other criteria of issuance have been prescribed by regulation under Section 564(c)(4) of the Act.

SNOMED codes, as defined by the Laboratory In Vitro Diagnostics (LIVD) Test Code Mapping for SARS-CoV-2 Tests provided by CDC.

Your product is performed using anterior nasal swab samples from individuals aged 2 years and older. When using your product, the individual performing the test must follow either the “Flowflex COVID-19 Antigen Home Test Package Insert” instructions provided in the kit or follow the step-by-step application (App)-based instructions on a compatible electronic device,⁸ when collecting the specimen, running the test procedure and interpreting the results.

The Flowflex COVID-19 Antigen Home Test includes the materials or other authorized materials (as may be requested under Condition L, M. and N. below), required to collect the anterior nasal sample and perform the test procedure, as described in the “Flowflex COVID-19 Antigen Home Test Package Insert” and the “Flowflex COVID-19 Antigen Home Test Package Insert for Healthcare Providers.” In addition, individuals should report all results obtained with your product to their healthcare provider.

Your product includes an internal control test line (“C”) that must generate the expected result for a test to be considered valid, as outlined in the “Flowflex COVID-19 Antigen Home Test Package Insert” and the “Flowflex COVID-19 Antigen Home Test Package Insert for Healthcare Providers.”

The labeling entitled “Flowflex COVID-19 Antigen Home Test Package Insert for Healthcare Providers” instructions for use, the “Flowflex COVID-19 Antigen Home Test Package Insert” lay user instructions for use, and the “Flowflex COVID-19 Antigen Home Test” box labels⁹ (available at <https://www.fda.gov/medical-devices/coronavirus-disease-2019-covid-19-emergency-use-authorizations-medical-devices/in-vitro-diagnostics-euas>), the “Flowflex COVID-19 Antigen Home Test” adult collection video, the “Flowflex COVID-19 Antigen Home Test” child collection video, the “Flowflex Web App” application and the following fact sheet pertaining to the emergency use, is required to be made available as set forth in the Conditions of Authorization (Section IV), and are collectively referred to as “authorized labeling”:

- Fact Sheet for Healthcare Professionals¹⁰: ACON Laboratories, Inc. - Flowflex COVID-19 Antigen Home Test

⁸ The Flowflex COVID-19 Antigen Home Test includes the optional use of a web-based application, the Flowflex Web App, on a compatible electronic device equipped with a camera, that includes a computer, tablet or phone, running a compatible web browser (Chrome, Firefox, or Safari) and/or mobile applications run on compatible smart phones (using specified operating systems) as may be requested, and for which you receive appropriate authorization, in accordance with Condition N. below. Flowflex COVID-19 Antigen Home Test application options are described in the “Flowflex COVID-19 Antigen Home Test Package Insert” and the “Flowflex COVID-19 Antigen Home Test Package Insert for Healthcare Providers”.

⁹ “Flowflex COVID-19 Antigen Home Test” box labels include boxes for 1-, 2-, 5- and 25-pack, 5-pack outer box label (optional outer box used in combination with the 5-box label only), and “Flowflex COVID-19 Antigen Home Test” box labels for additional test kits numbers/options as may be requested, and for which you receive appropriate authorization, in accordance with Condition M. below. Flowflex COVID-19 Antigen Home Test kits numbers/options are described in the “Flowflex COVID-19 Antigen Home Test Package Insert” and the “Flowflex COVID-19 Antigen Home Test Package Insert for Healthcare Providers.”

¹⁰ Note that the information typically found in a Fact Sheet for Individuals is contained in the authorized “Flowflex COVID-19 Antigen Home Test Package Insert” lay user instructions for use, that will be available to end users as set forth in the Conditions of Authorization (Section IV).

The above described product, when accompanied by the authorized labeling as set forth in the Conditions of Authorization (Section IV) is authorized to be distributed and used under this EUA, despite the fact that it does not meet certain requirements otherwise required by applicable federal law.

I have concluded, pursuant to Section 564(d)(2) of the Act, that it is reasonable to believe that the known and potential benefits of your product, when used consistent with the Scope of Authorization of this letter (Section II), outweigh the known and potential risks of your product.

I have concluded, pursuant to Section 564(d)(3) of the Act, based on the totality of scientific evidence available to FDA, that it is reasonable to believe that your product may be effective in diagnosing COVID-19, when used consistent with the Scope of Authorization of this letter (Section II), pursuant to Section 564(c)(2)(A) of the Act.

FDA has reviewed the scientific information available to FDA, including the information supporting the conclusions described in Section I above, and concludes that your product (as described in the Scope of Authorization of this letter (Section II)) meets the criteria set forth in Section 564(c) of the Act concerning safety and potential effectiveness.

The emergency use of your product under this EUA must be consistent with, and may not exceed, the terms of this letter, including the Scope of Authorization (Section II) and the Conditions of Authorization (Section IV). Subject to the terms of this EUA and under the circumstances set forth in the Secretary of HHS’s determination under Section 564(b)(1)(C) of the Act described above and the Secretary of HHS’s corresponding declaration under Section 564(b)(1) of the Act, your product is authorized for the indication above.

III. Waiver of Certain Requirements

I am waiving the following requirements for your product during the duration of this EUA:

- Current good manufacturing practice requirements, including the quality system requirements under 21 CFR Part 820 with respect to the design, manufacture, packaging, labeling, storage, and distribution of your product, but excluding Subpart H (Acceptance Activities, 21 CFR 820.80 and 21 CFR 820.86), Subpart I (Nonconforming Product, 21 CFR 820.90), and Subpart O (Statistical Techniques, 21 CFR 820.250).

IV. Conditions of Authorization

Pursuant to Section 564(e) of the Act, I am establishing the following conditions on this authorization:

ACON Laboratories, Inc. (You) and Authorized Distributor(s)¹¹

¹¹ “Authorized Distributor(s)” are identified by you, ACON Laboratories, Inc., in your EUA submission as an entity allowed to distribute your product.

- A. Your product must comply with the following labeling requirements: the intended use statement in 21 CFR 809.10(a)(2), (b)(2); adequate directions for use in 21 U.S.C. 352(f) and 21 CFR 809.10(b)(5), (7), and (8); appropriate limitations on the use of the device including information required under 21 CFR 809.10(a)(4); and any available information regarding performance of the device, including requirements under 21 CFR 809.10(b)(12).
- B. You and authorized distributor(s) must make available the *Flowflex* COVID-19 Antigen Home Test Package Insert” lay user instructions for use in the shipped kit using the “*Flowflex* COVID-19 Antigen Home Test” box labels and make these two documents electronically available on your website (see Footnote 9).
- C. You and authorized distributor(s) must maintain records of customer complaint files and report to FDA any significant complaints about usability or deviations from the established performance characteristics of which you and authorized distributor(s) become aware.
- D. You and authorized distributor(s) must inform relevant public health authorities of this EUA, including the terms and conditions herein, and any updates made to your product and/or the authorized labeling.
- E. Through a process of inventory control, you and authorized distributor(s) must maintain records of the locations (e.g., pharmacies, doctor’s offices, etc.) to which your product is distributed and the number of tests distributed to each location.
- F. You and authorized distributor(s) must collect information on the performance of your product and have a process in place to track adverse events, including any occurrence of false positive or false negative results and significant deviations from the established performance characteristics of the product of which you become aware and report any such events to FDA in accordance with 21 CFR Part 803. Serious adverse events, especially unexpected biosafety concerns, should immediately be reported to the Division of Microbiology (DMD)/Office of Health Technology 7 (OHT7)-Office of In Vitro Diagnostics and Radiological Health (OIR)/Office of Product Evaluation and Quality (OPEQ)/Center for Devices and Radiological Health (CDRH) (via email: CDRH-EUAREporting@fda.hhs.gov).
- G. You and authorized distributor(s) are authorized to make available additional information relating to the emergency use of your product that is consistent with, and does not exceed, the terms of this letter of authorization.
- H. You and authorized distributor(s) using your product must ensure that any records associated with this EUA are maintained until otherwise notified by FDA. Such records will be made available to FDA for inspection upon request.

ACON Laboratories, Inc. (You)

- I. You must notify FDA of any authorized distributor(s) of your product, including the name, address, and phone number of any authorized distributor(s).
- J. You must provide authorized distributor(s) with a copy of this EUA and communicate to authorized distributor(s) any subsequent revisions that might be made to this EUA and its authorized accompanying materials, including the authorized labeling.
- K. You must make the authorized “*Flowflex* COVID-19 Antigen Home Test Package Insert for Healthcare Providers” instructions for use, the “Fact Sheet for Healthcare Professionals,” the “*Flowflex* COVID-19 Antigen Home Test” adult collection video, the “*Flowflex* COVID-19 Antigen Home Test” child collection video, the “*Flowflex* Web App” application electronically available on your website. Additionally, you must provide the opportunity to request a copy of the “*Flowflex* COVID-19 Antigen Home Test Package Insert for Healthcare Providers” instructions for use and “Fact Sheet for Healthcare Professionals” in paper form, and after such request, promptly provide the requested labeling at no additional cost.
- L. You may request changes to this EUA for your product, including to the Scope of Authorization (Section II in this letter) or to the authorized labeling, including requests to make available additional authorized labeling specific to an authorized distributor. Such additional labeling may use another name for the product but otherwise must be consistent with the authorized labeling, and shall not exceed the terms of authorization of this letter. Any request for changes to this EUA should be submitted to DMD/OHT7-OIR/OPEQ/CDRH and require appropriate authorization from FDA prior to implementation.
- M. You may request new box labels to allow additional test kits numbers/options for your product. Such additional labeling requests to this EUA should be submitted to and require concurrence of DMD/OHT7-OIR/OPEQ/CDRH prior to implementation.
- N. You may request additional applications, including mobile-based applications run on compatible smart phones (using specified operating systems), to allow additional access options for your product. Such additional labeling requests to this EUA should be submitted to and require concurrence of DMD/OHT7-OIR/OPEQ/CDRH prior to implementation.
- O. You must comply with the following requirements pursuant to FDA regulations: 21 CFR 820 Subpart H (Acceptance Activities, 21 CFR 820.80 and 21 CFR 820.86), Subpart I (Nonconforming Product, 21 CFR 820.90), and Subpart O (Statistical Techniques, 21 CFR 820.250).
- P. You must have lot release procedures and the lot release procedures, including the study design and statistical power, must ensure that the product released for distribution meet the clinical and analytical performance claimed in the authorized labeling.

- Q. If requested by FDA, you must submit your lot release procedures to FDA, including sampling protocols, testing protocols, and acceptance criteria, that you use to release lots of your product for distribution in the U.S. If such lot release procedures are requested by FDA, you must provide them within 48 hours of the request.
- R. You must evaluate the analytical limit of detection and assess traceability¹² of your product with any FDA-recommended reference material(s). After submission to and concurrence with the data by FDA, you will update your labeling to reflect the additional testing. Such labeling updates will be made in consultation with, and require concurrence of, DMD/OHT7-OIR/OPEQ/CDRH.
- S. You must evaluate the clinical performance of your product in additional asymptomatic individuals in an FDA agreed upon post authorization clinical evaluation study within 2 months of the date of this letter (unless otherwise agreed to with DMD/OHT7-OIR/OPEQ/CDRH). After submission to and concurrence with the data by FDA, you must update the authorized labeling to reflect the additional testing. Such labeling updates will be made in consultation with, and require concurrence of, DMD/OHT7-OIR/OPEQ/CDRH.
- T. You must complete the agreed upon real-time stability study for your product and notify DMD/OHT7-OIR/OPEQ/CDRH of the testing results as they become available until completion of the study. After submission of the study data, and review and concurrence with the data by FDA, you must update your product labeling accordingly. Such labeling updates must be made in consultation with, and require concurrence of, DMD/OHT7-OIR/OPEQ/CDRH.
- U. You must submit your product for any FDA-recommended independent evaluation to confirm the performance characteristics of your test, if requested by FDA. After submission to and concurrence with the data by FDA, you will update your labeling to reflect the additional testing. Such labeling updates will be made in consultation with, and require concurrence of, DMD/OHT7-OIR/OPEQ/CDRH.
- V. You must evaluate the impact of SARS-CoV-2 viral mutations on your product's performance. Such evaluations must occur on an ongoing basis and must include any additional data analysis that is requested by FDA in response to any performance concerns you or FDA identify during routine evaluation. Additionally, if requested by FDA, you must submit records of these evaluations for FDA review within 48 hours of the request. If your evaluation identifies viral mutations that affect the stated expected performance of your device, you must notify FDA immediately.
- W. If requested by FDA, you must update your labeling within 7 calendar days to include any additional labeling risk mitigations identified by FDA, such as those related to the impact of viral mutations on test performance. Such updates will be made in consultation with, and require concurrence of, DMD/OHT7-OIR/OPEQ/CDRH.

¹² Traceability refers to tracing analytical sensitivity/reactivity back to an FDA-recommended reference material.

Conditions Related to Printed Materials, Advertising and Promotion

- X. All descriptive printed matter, advertising, and promotional materials relating to the use of your product shall be consistent with the authorized labeling, as well as the terms set forth in this EUA and meet the requirements set forth in section 502(a), (q)(1), and (r) of the Act, as applicable, and FDA implementing regulations.
- Y. No descriptive printed matter, advertising, or promotional materials relating to the use of your product may represent or suggest that this test is safe or effective for the detection of SARS-CoV-2.
- Z. All descriptive printed matter, advertising, and promotional materials relating to the use of your product shall clearly and conspicuously state that:
 - This product has not been FDA cleared or approved; but has been authorized by FDA under an EUA;
 - This product has been authorized only for the detection of proteins from SARS- CoV-2, not for any other viruses or pathogens; and,
 - This product is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of COVID-19 under Section 564(b)(1) of the Federal Food, Drug and Cosmetic Act, 21 U.S.C. § 360bbb-3(b)(1), unless the declaration is terminated or authorization is revoked sooner.

The emergency use of your product as described in this letter of authorization must comply with the conditions and all other terms of this authorization.

V. Duration of Authorization

This EUA will be effective until the declaration that circumstances exist justifying the authorization of the emergency use of in vitro diagnostics for detection and/or diagnosis of COVID-19 is terminated under Section 564(b)(2) of the Act or the EUA is revoked under Section 564(g) of the Act.

Sincerely,

Jacqueline A. O’Shaughnessy, Ph.D.
Acting Chief Scientist
Food and Drug Administration

Enclosure