

January 19, 2023

Ronald Lollar
VP, Clinical and Regulatory Affairs – Infectious Disease
Quidel Corporation
9975 Summers Ridge Road
San Diego, CA 92121

Device: QuickVue At-Home OTC COVID-19 Test
EUA Number: EUA210269
Company: Quidel Corporation
Indication: Non-prescription home use for the qualitative detection of nucleocapsid protein antigen from SARS-CoV-2 with self-collected anterior nasal (nares) swab samples from individuals aged 14 years or older or adult collected anterior nasal (nares) swab samples from individuals aged two years or older. This test is authorized for individuals with symptoms of COVID-19 within the first six days of symptom onset when tested at least twice over three days with at least 48 hours between tests, and for individuals without symptoms or other epidemiological reasons to suspect COVID-19, when tested at least three times over five days with at least 48 hours between tests.

Dear Mr. Lollar:

On March 31, 2021, based on your¹ request the Food and Drug Administration (FDA) issued an Emergency Use Authorization (EUA) for emergency use of the QuickVue At-Home OTC COVID-19 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 In addition, FDA established additional Conditions of Authorization in response to the continued emergence of new variants of SARS-CoV-2 on September 23, 2021.³ Based on your request, the letter was revised and

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

² The March 31, 2021, letter authorized your product for the qualitative detection of nucleocapsid protein antigen from SARS-CoV-2 from individuals with or without symptoms or other epidemiological reasons to suspect COVID-19 when tested twice over two or three days with at least 24 hours and no more than 36 hours between tests. This test was authorized for non-prescription home use with self-collected (unobserved) direct anterior nasal (NS) swab specimens from individuals aged 14 years and older or with adult-collected anterior NS samples from individuals aged 2 years or older.

³ The Viral Mutation Revision Letter – September 23, 2021, can be accessed at:
<https://www.fda.gov/media/152406/download>.

reissued by FDA on October 21, 2021.⁴ In addition, based on your requests, FDA granted updates to the authorized labeling on April 22, 2022,⁵ July 21, 2022,⁶ and September 23, 2022.⁷ Further, FDA revised the authorized uses and established one additional Condition of Authorization requiring updates to product labeling regarding repeat, or serial, testing, for all currently authorized SARS-CoV-2 antigen tests on November 1, 2022.⁸

On October 13, 2022 and October 14, 2022, FDA received requests from you to amend your EUA. In response to these requests, and having concluded that revising the October 21, 2021, EUA is appropriate to protect the public health or safety under section 564(g)(2)(C) of the Act (21 U.S.C. § 360bbb-3(g)(2)(C)), FDA is reissuing the October 21, 2021, letter in its entirety

⁴ On October 21, 2021, the revisions to the March 31, 2021, letter and authorized labeling included: (1) updates to the intended use to include use of your product with “*direct anterior nasal (nares) swab samples from individuals aged 14 years or older with symptoms of COVID-19 within the first six days of symptom onset,*” “*adult-collected anterior nasal swab samples from individuals aged 2 years or older with symptoms of COVID-19 within the first six days of symptom onset,*” and “*self-collected anterior nasal (nares) swab samples from individuals aged 14 years or older, or adult collected anterior nasal swab samples from individuals aged 2 years or older, with or without symptoms or other epidemiological reasons to suspect COVID-19 when tested twice over three days with at least 24 hours (and no more than 48 hours) between tests,*” (2) updates to the authorized labeling to fulfill Condition of Authorization (1) in the Viral Mutation Revision Letter – September 23, 2021, (3) add Conditions of Authorization (2) and (3) from the Viral Mutation Revision Letter – September 23, 2021 (V. and W.), (4) updates to the outer box labels and Instructions for Use (IFU) limitations section to reflect the updates to the intended use, (5) offering the test kit with 1 test, 2 test, 10 test and 25 test options, (6) updates to the authorized labeling to include a 2-page format of the “QuickVue At-Home OTC COVID-19 Test User Instructions” in the shipped product and include QR codes that the end user can use to electronically access the multi-page format of the “QuickVue At-Home OTC COVID-19 Test User Instructions,” and (7) updates to the letter and fact sheets to reflect the updated intended use and for consistency with language used in more recent authorizations.

⁵ On April 22, 2022, your request was granted via email acknowledgement to replace the “QuickVue At-Home OTC COVID-19 Test Kit Healthcare Provider Instructions for Use” and the “QuickVue At-Home OTC COVID-19 Test User Instructions” with 508 compliant versions.

⁶ On July 21, 2022, your request was granted to offer the QuickVue At-Home OTC COVID-19 Test under the brand name/trade name of CVS Health At Home COVID-19 Test Kit in a 2-tests per kit configuration.

⁷ On September 23 2022, your request was granted to; (1) extend the shelf-life expiration date to 16 months when stored at 15°C – 30°C, based on the results of your ongoing stability studies, (2) update the “QuickVue At-Home OTC COVID-19 Test Kit Healthcare Provider Instructions for Use”, the “QuickVue At-Home OTC COVID-19 Test User Instructions” multi-page format, and the “QuickVue At-Home OTC COVID-19 Test User Instructions” 2-page format with the product storage temperature range, and (3) update the labeling for the CVS Health At Home COVID-19 Test Kit (alternate brand name/trade name) with the product storage temperature range, correction to website address, and minor formatting changes,

⁸ The Repeat Testing Revision Letter - November 1, 2022, can be accessed at:
<https://www.fda.gov/media/162799/download>.

with the amendments incorporated⁹ to authorize the emergency use of your product.¹⁰ 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.¹¹

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 “QuickVue At-Home OTC COVID-19 Test Kit 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:

⁹ The revisions to the October 21, 2021, letter and authorized labeling include: (1) incorporating your response to Condition of Authorization (1) of the Repeat Testing Revision Letter dated November 1, 2022 to revise the authorized use(s) as required and described in Appendix A, and make various updates to the authorized labeling as required and described in Appendix B of the letter for both the QuickVue At-Home OTC COVID-19 Test and the CVS Health At Home COVID-19 Test Kit (alternate brand name/trade name), (2) discontinue the Fact Sheet for Individuals as the necessary information is contained in the authorized “QuickVue At-Home OTC COVID-19 Test User Instructions,” (3) deleting Condition of Authorization Q. in the October 21, 2021, letter in accordance with the Repeat Testing Revision Letter dated November 1, 2022, (4) addition of the end user option to use step-by-step “QuickVue At-Home OTC COVID-19 Test User Instructions” by downloading the “QVue App” mobile application onto a compatible smartphone, (5) addition of the option to facilitate test result reporting via the “QVue App” mobile application, (6) include results of additional reactivity studies, (7) addition of Condition of Authorization M. (below) to facilitate additional box labels, (8) removal of Conditions of Authorization S., T. and U. from the October 21, 2021, letter that were fulfilled, (9) removal of the 1 test option and box label, (10) updating the Letter of Authorization and Fact Sheet for Healthcare Professionals to reflect the revised intended use, and for consistency with language used in more recent authorizations, (11) offer an additional smaller sized box label for the 2 test option, and (12) offer the QuickVue At-Home OTC COVID-19 Test under the brand name/trade name of Walgreens At-Home COVID-19 Test Kit in a 2-tests per kit configuration.

¹⁰ For ease of reference, this letter will use the term “your product” to refer to the QuickVue At-Home OTC COVID-19 Test, used for the indication identified above.

¹¹ 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.¹²

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 immunoassay intended for the qualitative detection of nucleocapsid protein antigen from SARS-CoV-2. This test is authorized for non-prescription home use with self-collected direct anterior nasal (nares) swab samples from individuals aged 14 years or older or adult-collected anterior nasal (nares) swab samples from individuals aged two years or older. This test is authorized for individuals with symptoms of COVID-19 within the first six days of symptom onset when tested at least twice over three days with at least 48 hours between tests, and for individuals without symptoms or other epidemiological reasons to suspect COVID-19, when tested at least three times over five days with at least 48 hours between tests. The QuickVue At-Home OTC COVID-19 Test does not differentiate between SARS-CoV and SARS-CoV-2.

The SARS-CoV-2 nucleocapsid protein antigen is generally detectable in anterior nasal (nares) swab specimens 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 the QuickVue At-Home OTC COVID-19 Test should self-isolate and seek follow-up care with their physician or healthcare provider as additional testing may be necessary.

All 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 measures such as isolating from others and wearing masks. 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 COVID-19.

¹² No other criteria of issuance have been prescribed by regulation under Section 564(c)(4) of the Act.

Individuals who test negative and continue to experience COVID-19 like symptoms of fever, cough and/or shortness of breath may still have SARS-CoV-2 infection and should seek follow up care with their physician or healthcare provider.

Individuals should provide all test results obtained with this product to their healthcare provider for public health reporting and to receive appropriate medical care. All 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 SNOMED codes, as defined by the Laboratory In Vitro Diagnostics (LIVD) Test Code Mapping for SARS-CoV-2 Tests provided by the Centers for Disease Control and Prevention .

Your product is performed using anterior nasal (nares) swab samples from individuals aged 2 years or older. When using your product, the individual performing the test has the option to follow the “QuickVue At-Home OTC COVID-19 Test User Instructions” provided as a 2-page hard copy format with the kit or follow the electronic multi-page pdf format “QuickVue At-Home OTC COVID-19 Test User Instructions” via a website, or by downloading the step-by-step instructions via the “QVue App” mobile application onto a compatible smartphone.¹³

The QuickVue At-Home OTC COVID-19 Test includes the following materials or other authorized materials (as may be requested under Condition L. and M. below), required to collect the anterior nasal (nares) swab sample and perform the test procedure, as described in the “QuickVue At-Home OTC COVID-19 Test Kit Healthcare Provider Instructions for Use” and the “QuickVue At-Home OTC COVID-19 Test User Instructions.”

Your product includes an internal control test line that must generate the expected result for a test to be considered valid, as outlined in the “QuickVue At-Home OTC COVID-19 Test Kit Healthcare Provider Instructions for Use” and the “QuickVue At-Home OTC COVID-19 Test User Instructions.”

The labeling entitled “QuickVue At-Home OTC COVID-19 Test Kit Healthcare Provider Instructions for Use” the “QuickVue At-Home OTC COVID-19 Test User Instructions” web-based multi-page pdf format, the “QuickVue At-Home OTC COVID-19 Test User Instructions” 2-page hard copy format, the “QuickVue At-Home OTC COVID-19 Test” box labels¹⁴ (available at <https://www.fda.gov/medical-devices/coronavirus-disease-2019-covid-19-emergency-use-authorizations-medical-devices/in-vitro-diagnostics-euas>), the “QVue App” mobile application with step-by-step “QuickVue At-Home OTC COVID-19 Test User Instructions”, and the following fact sheet pertaining to the emergency use, is required to be

¹³ The multi-page electronic-based pdf version of the “QuickVue At-Home OTC COVID-19 Test User Instructions” can be accessed via <https://quickvueathome.com/>. Compatible smart phone for the “QVue App” mobile application includes Apple iPhone running Operation System (iOS) v13.0 or later, and Android Phones running Android OS v9.0 or later). Additional smart phone models as may be requested, and for which you receive appropriate authorization, in accordance with Condition L. below.

¹⁴ “QuickVue At-Home OTC COVID-19 Test” box labels include boxes for 2, 2 (small), 10 and 25 test kits and “QuickVue At-Home OTC COVID-19 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. QuickVue At-Home OTC COVID-19 Test numbers/options are described in the “QuickVue At-Home OTC COVID-19 Test Kit Healthcare Provider Instructions for Use.”

made available as set forth in the Conditions of Authorization (Section IV), and are collectively referred to as “authorized labeling”:

- Fact Sheet for Healthcare Professionals¹⁵: Quidel Corporation - QuickVue At-Home OTC COVID-19 Test

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).

¹⁵ Note that the information typically found in a Fact Sheet for Individuals is contained in the authorized “QuickVue At-Home OTC COVID-19 Test User Instructions” that will be available to end users as set forth in the Conditions of Authorization (Section IV).

IV. Conditions of Authorization

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

Quidel Corporation (You) and Authorized Distributor(s)¹⁶

- 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 “QuickVue At-Home OTC COVID-19 Test User Instructions” 2-page hard copy format for your product in the shipped kit using the authorized box labels (refer to footnote 14) and must make available the “QuickVue At-Home OTC COVID-19 Test User Instructions” web-based multi-page pdf format electronically on your website.
- 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.
- 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/Office of Product Evaluation and Quality (OPEQ)/Center for Devices and Radiological Health (CDRH) (via email: CDRH-EUAReporting@fda.hhs.gov).

¹⁶ “Authorized Distributor(s)” are identified by you, Quidel Corporation, in your EUA submission as an entity allowed to distribute the QuickVue At-Home OTC COVID-19 Test.

- 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.

Quidel Corporation (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 “QuickVue At-Home OTC COVID-19 Test Kit Healthcare Provider Instructions for Use” and the Fact Sheet for Healthcare Professionals electronically available on your website. Additionally, you must provide the opportunity to request a copy of the “QuickVue At-Home OTC COVID-19 Test Kit Healthcare Provider 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/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/OPEQ/CDRH prior to implementation.
- N. 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).
- O. 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.

- P. 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.
- Q. You must evaluate the analytical limit of detection and assess traceability¹⁷ 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/OPEQ/CDRH.
- R. You must complete the agreed upon real-time stability study for your product and notify DMD/OHT7/OPEQ/CDRH of the testing results. After submission of the study data, and review and concurrence with the data by FDA, you must update your product labeling to reflect the additional testing if requested by FDA. Such labeling updates must be made in consultation with, and require concurrence of, DMD/OHT7/OPEQ/CDRH.
- S. 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 (via email: CDRH-EUA-Reporting@fda.hhs.gov).
- T. 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/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/OPEQ/CDRH.

Conditions Related to Printed Materials, Advertising and Promotion

- V. 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.
- W. No descriptive printed matter, advertising or promotional materials relating to the use

¹⁷ Traceability refers to tracing analytical sensitivity/reactivity back to an FDA-recommended reference material.

of your product may represent or suggest that this test is safe or effective for the detection of SARS-CoV-2.

- X. 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,
 - The emergency use of 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,

Namandjé N. Bumpus, Ph.D.
Chief Scientist
Food and Drug Administration

Enclosure