

May 6, 2020

Sophie Vernay Regulatory Affairs Manager BioMérieux SA 376, Chemin de L'Orme Marcy L'Etoile, FR 69280

Device: SARS-COV-2 R-GENE

Company: BioMérieux SA

Indication: Qualitative detection of nucleic acid from ARS-CoV-2 in

nasopharyngeal swabs, propagation (throat) swabs, anterior nasal swabs, mid-turbinal pasal swabs, nasal aspirates, nasal washes and lanchos peolar wage (BAL) fluid from individuals suspected (COVID-1) by the healthcare provider. Emergency

use of this est is limited authorized laboratories.

Authorized Laboratories: Laboratories extified water the Clinical Laboratory Improvement

Amend ents of CLIA), 42 U.S.C. §263a, to perform high

complex y tests.

Dear Ms. Vernay:

This letter is in response your request that the Food and Drug Administration (FDA) issue an Emergence Use Astorization (EUA) for emergency use of your product, pursuant to Section 5 of the Feder Food, Drug, and Cosmetic Act (the Act) (21 U.S.C. §360bbb-3).

On February 2025, Suant 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 to has a significant potential to affect national security or the health and security of United States colored 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

¹ For ease of reference, this letter will use the term "you" and related terms to refer to BioMérieux SA.

² For ease of reference, this letter will use the term "your product" to refer to the SARS-COV-2 R-GENE test used for the indication identified above.

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.³

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 authorization under Section 564(c) of the Act, because I have concluded the.

- 1. The SARS-CoV-2 can cause a serious or life-threatening disease of condition, including severe respiratory illness, to humans infected by his virus;
- 2. Based on the totality of scientific evidence available to NA, it reasonable to believe that your product may be effective in diagnosing OVID and that the known and potential benefits of your product when used for diagnosing OVID 19, outweigh the known and potential risks of your product; and,
- 3. There is no adequate, approved, and available a mative to the emergency use of your product. 4

II. Scope of Authorization

I have concluded, pursuant to Section 564(11) of the Act, that the scope of this authorization is limited to the indication above.

Authorized Product Pails

Your product is a aditative test for the detection of nucleic acid from SARS-CoV-2 in pharyngeal (throat) swabs, anterior nasal swabs, mid-turbinate nasal nasopharvngeal sy asal was as and bronchoalveolar lavage (BAL) fluid from individuals swabs, nasal irate the r healthcare provider. The SARS-CoV-2 nucleic acid is suspected le in rest, atory specimens during the acute phase of infection. Positive results ence of SARS-CoV-2 nucleic acid; clinical correlation with patient are inc history a her diagnostic information is necessary to determine patient infection status. Positive res do not rule out bacterial infection or co-infection with other viruses.

To use your product, SARS-CoV-2 nucleic acid is first extracted, isolated and purified from nasopharyngeal swabs, oropharyngeal (throat) swabs, anterior nasal swabs, mid-turbinate nasal swabs, nasal aspirates, nasal washes and bronchoalveolar lavage (BAL) fluid. The purified nucleic acid is then reverse transcribed into cDNA followed by PCR amplification and detection

³ 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).

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

using an authorized real-time (RT) PCR instrument. The SARS-COV-2 R-GENE includes the following materials or other authorized materials: Water (molecular grade) (W0), Internal control 1 (IC1), SARS-COV-2 amplification premix ((R01), SARBECOVIRUS amplification premix (R02), SARS-COV-2 Positive control (PC1), SARBECOVIRUS and Cc Positive control (PC2), and Reverse Transcriptase Superscript III (RT).

Your product requires the following control materials, or other authorized control materials, that are processed in the same way as the specimens and are required to be included with each batch of specimens tested with your product. All controls listed below must generate expected results in order for a test to be considered valid, as outlined in the Instructions for User

- Internal Control (IC1) RNA internal control added to each chical specime (as part of the Sample Extraction + Inhibition Control) and the negative control as part of the Reference Extraction + Inhibition Control) controls for energy of the extraction, and detect the presence of possible inhibitors.
- Positive Controls (PC1 and PC2) contains *in vitre* canser as for SARS-CoV-2 (PC1) or in vitro transcripts for Sarbecovirus and a plant of for the cell Control (PC2) targeted by the kit. The positive control is used to monitor for factores of rRT-PCR reagents and reaction conditions.
- Negative Control (W0) (Reference Extraction Control) Nuclease-free, molecular-grade water plus the IC1 used to a liter non-specific amplification, cross-contamination during experimental settlement of cleic acid contamination of reagents.
- Cell Control (Cc) checks for the presence of cend in the sample, which reflects the quality of the sampling

Your product also requires the use of additional and are described in the instructions for use.

The above described product, is as a rizal to be accompanied with labeling entitled "SARS-COV-2 R-GENE" in cructions for use (available at https://www.fda.gov/medical-devices/emergency-use-authorizations), and the following product-specific into product on pertaining to the emergency use, which is required to be made available to the care povider and patients:

Fact heet for Healthcare Providers: SARS-COV-2 R-GENE Patients: SARS-COV-2 R-GENE

The above described product, when accompanied by the instructions for use (identified above) and the two Fact Sheets (collectively referred to as "authorized labeling") is authorized to be distributed to and used by authorized laboratories 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 authorized product, when used for the qualitative detection of SARS-CoV-2 and used consistently 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 for the indication above, when used consistently 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 (\$4(b)(f)(C)) described above and the Secretary of HHS's corresponding decuration under Section (\$64(b)(f)(f)), your product is authorized for the indication above.

III. Waiver of Certain Requirements

I am waiving the following requirements for your production of this EUA:

• Current good manufacturing profice requirements, including the quality system requirements under 21 CFR Fort 820 with spect to the design, manufacture, packaging, labeling, storage, and distribution of your product.

IV. Conditions of Authorization

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

BioMérieux SA (ou) ap Authorized Distributor(s)⁵

- A. You product not come by with the following labeling requirements under FDA gulation: the increased use statement (21 CFR 809.10(a)(2), (b)(2)); adequate direction for use (21 U.S.C. 352(f)), (21 CFR 809.10(b)(5), (7), and (8)); any appropriate notion 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) will make your product available with the authorized labeling to authorized laboratories. You may request changes to the authorized labeling. Such requests will be made in consultation with, and require concurrence of, DMD/OHT7-OIR/OPEQ/CDRH.

⁵ "Authorized Distributor(s)" are identified by you, BioMérieux SA, in your EUA submission as an entity allowed to distribute your device.

- C. You and authorized distributor(s) will make available on your website(s) the Fact Sheet for Healthcare Providers and the Fact Sheet for Patients.
- D. You and authorized distributor(s) will inform authorized laboratories and relevant public health authorities of this EUA, including the terms and conditions herein, and any updates made to your product, authorized labeling and authorized Fact Sheets.
- E. Through a process of inventory control, you and authorized distributor(s) will maintain records of the authorized laboratories to which they distribute the test and number of tests they distribute.
- F. You and authorized distributor(s) will collect information on the performance of your product. You will report to FDA any suspected occurrence of false positive and also negative results and significant deviations from the established performance characteristics of the product of which you become aware.
- G. You and authorized distributor(s) are authorized to make a dable additional information relating to the emergency use of your roduct that is consistent with, and does not exceed, the terms of this letter of athorization.

BioMérieux SA (You)

- H. You will notify FDA of any authorized distributor(s) of your product, including the name, address, and phone number of any authorized distributor(s).
- I. You will provide authorized a tribute of an a copy of this EUA and communicate to authorized distributor(s) any su sequent amendments that might be made to this EUA and its authorized access onlying materials (e.g., Fact Sheets).
- J. You may recreek to make available additional authorized labeling and fact sheets specific to an authorized distributor. Such additional labeling and fact sheets may use another name for the coact, but therwise must be consistent with the authorized labeling, and not account the coact of athorization of this letter. Such requests will be made in insultation with, a require concurrence of, DMD/OHT7-OIR/OPEQ/CDRH.
- K. A vary request changes to the Scope of Authorization (Section II in this letter) of your product. Such requests will be made in consultation with DMD/OHT7-OIR/O_Q/CDRH, and require concurrence of, Office of Counterterrorism and Emerging Threats (OCET)/Office of the Chief Scientist (OCS)/Office of the Commissioner (OC) and DMD/OHT7-OIR/OPEQ/CDRH.
- L. You may request the addition of other instruments and associated software for use with your product. Such requests will be made in consultation with, and require concurrence of, DMD/OHT7-OIR/OPEQ/CDRH.

- M. You may request the addition of other extraction methods for use with your product. Such requests will be made in consultation with, and require concurrence of, DMD/OHT7-OIR/OPEQ/CDRH.
- N. You may request the addition of other specimen types for use with your product. Such requests will be made in consultation with, and require concurrence of, DMD/OHT7-OIR/OPEQ/CDRH.
- O. You may request the addition and/or substitution of primers or probes for use with your product. Such requests will be made in consultation with, and require the product of DMD/OHT7-OIR/OPEQ/CDRH.
- P. You may request the addition and/or substitution of control paterial for use with your product. Such requests will be made in consultation with and require ancurance of, DMD/OHT7-OIR/OPEQ/CDRH.
- Q. You may request the addition and/or substitution of other callary regents and materials for use with your product. Such request will be not be inconsultation with, and require concurrence of, DMD/OHT7-QR/OP Q/CDRH.
- R. You will evaluate the analytical limit of tectic and assess traceability of your product with any FDA-recomment of reference manyial(s). After submission to FDA and DMD/OHT7-OIR/OPEQ/CI kH's review of and concurrence with the data, You will update 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 will evaluate the conical performance of your product in an FDA agreed upon post authorization, unical evaluation day within 4 months of the date of this letter (unless otherwise a feed to with DMD/OHT7-OIR/OPEQ/CDRH. After submission to FDA and DMD/OH, 7-OIR/PEQ/CDRH's review of and concurrence with the data, you will update labely a reflect of additional testing. Such labeling updates will be made in contained by which and equire concurrence of, DMD/OHT7-OIR/OPEQ/CDRH.
- T. You with the events, including any occurrence of false results and report to Figure 21 CFR Part 803.

Authorized La pratories

- U. Authorized laboratories using your product will include with test result reports, all authorized Fact Sheets. Under exigent circumstances, other appropriate methods for disseminating these Fact Sheets may be used, which may include mass media.
- V. Authorized laboratories using your product will use your product as outlined in the

⁶ Traceability refers to tracing analytical sensitivity/reactivity back to an FDA-recommended reference material.

- "SARS-COV-2 R-GENE" instructions for use. Deviations from the authorized procedures, including the authorized instruments, authorized extraction methods, authorized clinical specimen types, authorized control materials, authorized other ancillary reagents and authorized materials required to use your product are not permitted.
- W. Authorized laboratories that receive your product will notify the relevant public health authorities of their intent to run your product prior to initiating testing.
- X. Authorized laboratories using your product will have a process in place for reporting test results to healthcare providers and relevant public health authorities as appreciate.
- ct and Y. Authorized laboratories will collect information on the performance f your pro report to DMD/OHT7-OIR/OPEQ/CDRH (via email: CDP ZEUA-Acal surport c Reporting@fda.hhs.gov) and you (bioMérieux local tech 800-682-2666) or CustomerService-ImmunoMolecular@bioms eux.ce any suspected occurrence of false positive or false negative result and acant de ations from the ch th established performance characteristics of your pr duct of v become aware.
- Z. All laboratory personnel using your product sust techniques and use appropriate laboratory and ponal protective equipment when handling this kit, and use your product an accordance with the authorized labeling.

BioMérieux SA (You), Authorized Discributors and Authorized Laboratories

AA. You, authorized districtors, ad authorized laboratories using your product will ensure that any records associated with uns EUA are maintained until otherwise notified by FDA. Such reconswill be tade available to FDA for inspection upon request.

Conditions Related 5 Printed Materia, Advertising and Promotion

- BB. All ascriptive printed matter, including advertising and promotional materials relation to the set of your product shall be consistent with the Fact Sheets and authorized leading, as well as the terms set forth in this EUA and the applicable requirements set orth in the Act and DA regulations.
- CC. No descriptive printed matter, including advertising or promotional materials relative to the use of your product may represent or suggest that this test is safe or effective for the detection of SARS-CoV-2.
- DD. All descriptive printed matter, including advertising and promotional materials relating to the use of your product shall clearly and conspicuously state that:
 - This test has not been FDA cleared or approved;
 - This test has been authorized by FDA under an EUA for use by authorized laboratories;

- This test has been authorized only for the detection of nucleic acid from SARS-CoV-2, not for any other viruses or pathogens; and
- This test 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 Act, 21 U.S.C. § 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner.

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

V. Duration of Authorization

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

RADM Denise M. Hinton
Chief Scientist
Food and Drug Administration

Enclosures