

October 2, 2020

Minoti Patel, RAC Director, Regulatory Affairs Thermo Fisher Scientific, Clinical Diagnostics Division 8365 Valley Pike Middletown, VA 22645

Device: OmniPATH COVID-19 Total antibody A Test

Company: Thermo Fisher Scientific

Indication: Qualitative detection (total a bodies (includity gM, IgA and

IgG) to SARS-CoV-2 is suman and amountained by the Dynex AGILITY automate as an aid in ideal and individual similar and individual similar and individual similar and response to ARS-Counting individual similar and recent or prior infection. Emerger y use of this text is limitation authorized laboratories.

Authorized Laboratories: Laboratories certified under the Clinical Laboratory Improvement

the tendre ats of 1988 (CL 7), 42 U.S.C. 263a, that meet regirement to perform a derate (automated method) or high

(m. val and . method) complexity tests.

Dear Ms. Patel

This letter can response to your requirement that the Food and Drug Administration (FDA) issue an Emergancy Use Administration (EUA) for emergency use of your product, pursuant to Section 14 of the Ederal Food, Drug, and Cosmetic Act (the Act) (21 U.S.C. §360bbb-3).

Department of North Muman Services (HHS) determined that there is a public health emergately that has a gnificant potential to affect national security or the health and security of University Citizens living abroad, and that involves the virus that causes COVID-19.

Product to Subject that has a gnificant potential to affect national security or the health and security of University Citizens living abroad, and that involves the virus that causes COVID-19.

Product to Subject to Subject to Secretary of the Maction of the Act, and on the basis of such determination, the Secretary of the Maction 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 Thermo Fisher Scientific.

² For ease of reference, this letter will use the term "your product" to refer to the OmniPATH COVID-19 Total Antibody ELISA Test 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

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 FD relied upon is contained in the 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 case 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 concluded it:

- 1. The SARS-CoV-2 can cause a serious or life-threateng disease or con, including severe respiratory illness, to humaninfed they this virus;
- 2. Based on the totality of scientific evidence available. FDA, it is reasonable to believe that your product may be effective using the green or prior infection with SARS-CoV-2 by identifying individual with an adapter immediates of the virus that causes COVID-19, and that the known and potential rules of your product when used for such use, outweigh the known and potential rules of your product; and
- 3. There is no adequate, approved, available remative to the emergency use of your product. 4

II. Scope of Authorition

I have concluded, pursuant to see 4(d)(1) of the Act, that the scope of this authorization is limited to a indication above.

Author d Prock & Details

IgA a IgG) to RS V-2 in human serum run manually or using the Dynex AGILITY auton and ELISA extation. The product is intended for use as an aid in identifying indicated with an adaptive immune response to SARS-CoV-2, indicating recent or prior is cuton. As a time, it is unknown for how long antibodies persist following infection and if he presence of antibodies confers protective immunity. Testing using the manual method is ited to laboratories certified under the CLIA that meet requirements to perform high

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.

complexity tests. Testing using the automated method is limited to laboratories certified under the CLIA that meet requirements to perform moderate or high complexity tests.

The assay uses a 96-well microplate, which is coated with recombinant SARS-CoV-2 protein, to form the capture phase. Serum samples and controls are incubated for 30 minutes in the microplate at 37°C. If SARS-CoV-2 S1 antigen-specific antibodies are present, they the immobilized antigen. The microwells are then washed to remove unbound serv components. After washing, horseradish peroxidase (HRP) conjugated recombia antigen is added to the microwells. The conjugated antigen will bind to the captured antibod inside the wells. After 30-minute incubation at 37°C and a second washing step, unb es are removed, and a chromogen solution containing tetramethylbenzidine (T and hydro peroxide (H_2O_2) is added to develop measurable color. In the wells α aining the antigen antibody-antigen (HRP) immunocomplex, the colorless chromoger are hydrol er the reaction is bound HRP conjugate to a blue colored product. The blue color tu ellow stopped with sulfuric acid in the Stop Solution. The color int sity of ation is me red by a microplate reader at 450 nm. The color intensity of the sol pon the a on depend manually, a concentration in the test samples. The assay may be process using a microplate reader with a detection wavelength of 45 m. Alternative e OmniPATH the Agility automated ELISA COVID-19 Total Antibody ELISA Test may be proanalyzer (Dynex Technologies Inc., Chantilly, VA.). is calculated by value of $0.\overline{105}$. If the Ratio is < 1.0, dividing the specimen color intensity at 450 nm by the co the sample is scored Negative, and if the the pole is scored Positive. The test can be run manually or on the Dynex A **LITY** auto d ED workstation (refer to **AGILITY Automated System Enzym** Linked Immuno bent Asay (ELISA) Operator Manual).

Your product requires the following authorized external control materials which are supplied as part of the kit, or other authorized control may be requested under Condition K below):

- Negative Co. Solutile composed of casein, newborn calf serum, glycerol, sur se, Triton X-1 and roClin300 (as preservative) in a citrate/phosphate buffer 17.4. Absorbance value ast be less than 0.105.
- Low Positive Control: Solution containing horse anti-SARS-CoV-2. Absorbance value and the greater than or equal to 0.200.
- Control: Colution containing horse anti-SARS-CoV-2. Absorbance value may be greated an or equal to 0.800.

Your oduct also have the use of additional authorized materials and authorized ancillary rear and are not included with your product and are described in the Instructions for Use.

our above described product is authorized to be accompanied with labeling entitled uniPATH COVID-19 Total Antibody ELISA Test" Instructions for Use (available at https://www.fda.gov/medical-devices/coronavirus-disease-2019-covid-19-emergency-use-authorizations-medical-devices/vitro-diagnostics-euas, and the following product-specific information pertaining to the emergency use, which is required to be made available to healthcare providers and recipients:

- Fact Sheet for Healthcare Providers: Thermo Fisher Scientific OmniPATH COVID-19 Total Antibody ELISA Test
- Fact Sheet for Recipients: Thermo Fisher Scientific OmniPATH COVID-19 Total Antibody ELISA Test

The above described product, when accompanied by the Instructions for Use (identify a above) and the two Fact Sheets (collectively referenced as "authorized labeling") is authorized to be distributed to and used by authorized laboratories under this EUA, despite the factories are the distributed to an used by authorized laboratories under this EUA, despite the factories are the distributed to an used by authorized laboratories under this EUA, despite the factories are the distributed to an used by authorized laboratories under this EUA, despite the factories are the distributed to an used by authorized laboratories under this EUA, despite the factories are the distributed to an used by authorized laboratories under this EUA, despite the factories are the distributed to an used by authorized laboratories under this EUA, despite the factories are the distributed to an used by authorized laboratories under this EUA, despite the factories are the distributed to an used by authorized laboratories under this EUA, despite the factories are the distributed to an used by authorized laboratories under this EUA, despite the factories are the distributed to an used by authorized laboratories under this EUA are the distributed to an used by authorized laboratories under this EUA are the distributed to an used by authorized laboratories under the distributed to a second the distributed the distributed

I have concluded, pursuant to Section 564(d)(2) of the Act, that it is reconable to believe the the known and potential benefits of your product, when used consider at with the cope of Authorization of this letter (Section II), outweigh the known and provided in the copy of your product.

I have concluded, pursuant to Section 564(d)(3) of the Act, beed on the pality of so diffice evidence available to FDA, that it is reasonable to believe the gour produce may be affective in diagnosing recent or prior infection with SARS-CoV 2 by idealing individual of the analysis in the analysis in the second of this letter (Section II), pursuant to Section 14(c)(2)(2), and Act.

FDA has reviewed the scientific information available to FD. Lincluding 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 lively and potential effectiveness.

The emergency use of your product under vis EUA product with, and may not exceed, the terms of this letter, in a ding the Conditions of Authorization (Section II) and the Conditions of Authorization (Section IV). Subject to the terms of this EUA and under the circumstances set for the Secretary of HHS's determination under Section 564(b)(1)(C) of the Act describe above and Secretary of HHS's corresponding declaration under Section 564(b)(1) of the Act, your product corriged for the indication above.

III. We er of Cere in Requirements

Lam waiving following duirements for your product during the duration of this EUA:

country acturing practice requirements, including the quality system regirements uncer 21 CFR Part 820 with respect to the design, manufacture, packaging, ange, 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. Inditions of Authorization

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

Thermo Fisher Scientific (You) and Authorized Distributor(s)⁵

- A. Your product must comply with the following labeling requirements under FDA regulations: the intended use statement (21 CFR 809.10(a)(2), (b)(2)); adequate directions for use (21 U.S.C. 352(f)), (21 CFR 809.10(b)(5), (7), and (8)); appriate limitations on the use of the device including information required under 2 CFR 809.10(a)(4); and any available information regarding performance of the wice, including requirements under 21 CFR 809.10(b)(12).
- B. You and authorized distributor(s) will make your product available with the authorized laboratories.
- C. You and authorized distributor(s) will make available on you. Sheet for Healthcare Providers and the Fact Sheet for Jecipients.
- D. You and authorized distributor(s) will inform author and laboratories and elevant public health authorities of this EUA, include the transfer and conditions herein, and any updates made to your product and authorized by ing.
- E. Through a process of inventory of arol, you all authorized distributor(s) will maintain records of the authorized labor aries to which by distribute the test and number of tests they distribute.
- F. You and authorized discoutor will collect information on the performance of your product. You will report FDA suspected courrence of false positive and false negative results and significant deviation in the established performance characteristics of the product of which you become aware.
- G. You and athorized to the second authorized to make available additional information relating to the second use of your product that is consistent with, and do not exceed the terms of this letter of authorization.

Thermo ther tentific (You)

You we sotify F A of any authorized distributor(s) of your product, including the same, add a set of phone number of any authorized distributor(s).

provide authorized distributor(s) with a copy of this EUA and communicate to authorized distributor(s) any subsequent amendments that might be made to this EUA and its authorized accompanying materials (e.g., Fact Sheets).

You will comply with the following requirements pursuant to FDA regulations: Subpart H (Acceptance Activities, 21 CFR 820.80 and 21 CFR 820.86), Subpart I

⁵ "Authorized Distributor(s)" are identified by you, Thermo Fisher Scientific, in your EUA submission as an entity allowed to distribute your product.

(Nonconforming Product, CFR 820.90), and Subpart O (Statistical Techniques, 21 CFR 820.250).

- K. 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 remarks available additional authorized labeling specific to an authorized distribution. Such additional labeling may use another name for the product but otherwise more consistent with the authorized labeling, and not exceed the terms of authorized of this letter. Any request for changes to this EUA should be submitted to the Division of Microbiology (DMD)/Office of Health Technology 7 (OHT7)-Office of In Vision Diagnostics and Radiological Health (OIR)/Office of Product Visionation and Quantification from FDA prior to implementation.
- L. You will evaluate the performance and assess tracea ity⁶ of you product will any FDA-recommended reference material(s) or establis d panel(s) or paracial zed clinical specimens. After submission to and concurrate with the data of ADA, you will update your labeling to reflect the additional test made in consultation with, and require concurrate a DIVIDAL OIR/OPEQ/CDRH.
- M. You will have a process in place to track advergence events recluding any occurrence of false results with your product and report to FD apursuant to 21 CFR Part 803.
- N. You must have lot release procedures and the lot please procedures, including the study design and statistical polyt, must be sure that the cests released for distribution have the clinical and analytical per smance contact the authorized labeling.
- O. If requested the TPA, you must submit lot release procedures to FDA, including sampling protocologiesting procedures are acceptance criteria, that you use to release lots of your productor distribution in the TPA. If such lot release procedures are requested by FDA, you must provide it within 48 hours of the request.
- P. will applete the agreed upon real-time stability study for your product. After subject on to and conditions testing with the data by FDA, you will update your labeling to reflect addition testing. Such labeling updates will be made in consultation with, and require your arrence of, DMD/OHT7-OIR/OPEQ/CDRH.

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- Q. 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.
- R. Authorized laboratories will use your product as outlined in the authorized labeling.

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

- Deviations from the authorized procedures, including the authorized clinical specimen types, authorized control materials, authorized other ancillary reagents and authorized materials required to use your product are not permitted.
- S. Authorized laboratories that receive your product will notify the relevant public health authorities of their intent to run your product prior to initiating testing.
- T. Authorized laboratories using your product will have a process in place reporting test results to healthcare providers and relevant public health authorities, as appropriate.
- U. Authorized laboratories will collect information on the perform the of your protect and report to DMD/OHT7-OIR/OPEQ/CDRH (via email: CDRH AA-Reporting@fda.hhs.gov) and you (techsupport.diagnostic to m@therp Asher.com) and suspected occurrence of false positive or false negative result and sufficant deviations from the established performance characteristics of your product which they acome aware.
- V. All laboratory personnel using your product sets be propriately trained in immunoassay techniques and use appropriate a trained protective equipment when handling this kit, and use your personnel using assay must also be trained in and be familiar with the interpretation of results of results of the product.

Thermo Fisher Scientific (You), Authorized Distributes and Authorized Laboratories

W. You, authorized distributers, and athorized laboratories using your product will ensure that any records associate with this part and an aintained until otherwise notified by FDA. Such records will be gade available to FDA for inspection upon request.

Conditions Related to A mod Materials, Advertising and Promotion

- X. All scriptive printed matters, cluding advertising and promotional materials, relating the use of the product, shall be consistent with the authorized labeling, as well as the has set for in this EUA and the applicable requirements set forth in the Act and FDA results.
- No descriptor and matter, including advertising or promotional materials, relating to the use of a product, may represent or suggest that this test is safe or effective for the detection of SARS-CoV-2.
- Z. 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 presence of antibodies against SARS-CoV-2, not for any other viruses or pathogens; and
- This test is only authorized for the duration of the declaration that circum exist justifying the authorization of emergency use of in vitro diagnoses for detection and/or diagnosis of COVID-19 under Section 564(b)(1) and Food, Drug and Cosmetics Act, 21 U.S.C. § 360bbb-3(b)(1), unless the horization is terminated or revoked sooner.

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

V. Duration of Authorization

This EUA will be effective until the declaration that circums authorization of the emergency use of in vitro diagnostics for etection and/on gnosis of COVID-19 is terminated under Section 564(b)(2) of Act Section 564(g) of the Act.

Sincerely

Chief Scientist
Food and Drug Administration

Enclosur