

Product Information Sheet for NR-55609

SARS-Related Coronavirus 2, Isolate hCoV-19/USA/PHC248/2021 (Lineage B.1.526; lota Variant)

Catalog No. NR-55609

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

<u>Virus Classification</u>: Coronaviridae, Betacoronavirus <u>Species</u>: Severe acute respiratory syndrome-related coronavirus 2

Strain/Isolate: hCoV-19/USA/PHC248/2021

Original Source: Severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), isolate hCoV-19/USA/PHC248/2021 was isolated from a human nasal swab on April 20, 2020, in Memphis, Tennessee, USA.¹ The complete genome of SARS-CoV-2, isolate hCoV-19/USA/PHC248/2021 has been sequenced (GenBank: OL442160.1).

Note: Genome sequence information is provided on the Certificate of Analysis and includes an analysis of all sequence variations observed for each lot.

<u>Comments</u>: Under the nomenclature system introduced by GISAID (Global Initiative on Sharing All Influenza Data), SARS-CoV-2, isolate hCoV-19/USA/PHC248/2021 is assigned lineage B.1.526 using the Phylogenetic Assignment of Named Global Outbreak lineages (PANGO) tool.^{1,2,3} It was labeled as an lota variant by the World Health Organization (WHO).³

In December 2019, an outbreak of a respiratory illness (COVID-19) began in Wuhan, Hubei Province, China. The outbreak is associated with a seafood market and although environmental samples from the market are positive for the novel coronavirus, an association with a particular animal has not been determined.⁴ SARS-CoV-2 has been isolated from patients from several countries and the sequences of some of these isolates have been deposited with GISAID.

Material Provided:

Each vial contains approximately 0.1 mL of spin-clarified cell lysate and supernatant from *Homo sapiens* lung adenocarcinoma epithelial cells (Calu-3) infected with SARS-CoV-2, isolate hCoV-19/USA/PHC248/2021.

<u>Note</u>: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-55609 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

<u>Host</u>: *Homo sapiens* lung adenocarcinoma epithelial cells (Calu-3; ATCC[®] HTB-55™)

Growth Medium: Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1500 milligrams per liter of sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent

<u>Infection</u>: Cells should be 70% to 90% confluent <u>Incubation</u>: 3 to 6 days at 37°C and 5% CO₂
<u>Cytopathic Effect</u>: Cell rounding and sloughing

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: SARS-Related Coronavirus 2, Isolate hCoV-19/USA/PHC248/2021 (Lineage B.1.526; lota Variant), NR-55609, contributed by Dr. Richard J. Webby."

Biosafety Level: 3

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

You are authorized to use this product for research use only. This product is not intended for human use.

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Use Restrictions:

SARS-CoV-2 materials provided by BEI Resources under the EUSLA are made available for any legitimate purpose, including commercial purposes as long as they are to rapidly prevent, detect, prepare for, and respond to, the spread or transmission of the 2019 SARS-CoV-2. Any further transfer of the original material or any unmodified progeny must be done under the terms of the EUSLA, documented as described above and you must notify BEI Resources of each subsequent transfer. Any new materials made by you that are not the original material or unmodified progeny are excluded from this requirement and you are free to share and commercialize those as your materials.

References:

- Rambaut, A., et al. "A Dynamic Nomenclature Proposal for SARS-CoV-2 Lineages to Assist Genomic Epidemiology." <u>Nat. Microbiol.</u> 5 (2020): 1403-1407. PubMed: 32669681.
- Mercatelli, D. and F. M. Giorgi. "Geographic and Genomic Distribution of SARS-CoV-2 Mutations." <u>Front. Microbiol.</u> (2020): doi.org/10.3389/fmicb.2020.01800. PubMed: 32793182.
- 3. WHO
- Gralinski, L. E. and V. D. Menachery. "Return of the Coronavirus: 2019-nCoV." <u>Viruses</u> 12 (2020): 135. PubMed: 31991541.

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