

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-52381

SARS-Related Coronavirus 2, Isolate USA-IL1/2020

Catalog No. NR-52381

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For research use only. Not for human use.

Contributor:

Centers for Disease Control and Prevention, Atlanta, Georgia, USA

Manufacturer:

BEI Resources

Product Description:

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

coronavirus 2

<u>Isolate</u>: USA-IL1/2020 (also referred to as USA ILS919 E4/2020)

Original Source: Severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), isolate USA-IL1/2020 was isolated from sputum from a human patient collected on January 21, 2020 in Illinois, USA.1

<u>Comments</u>: Under the nomenclature system introduced by GISAID (Global Initiative on Sharing All Influenza Data), SARS-CoV-2, isolate USA-IL1/2020 is assigned lineage B and GISAID clade O using Phylogenetic Assignment of Named Global Outbreak LINeages (PANGOLIN) tool.^{2,3,4} The complete genome of SARS-CoV-2, isolate USA-IL1/2020 has been sequenced (GenBank: MN988713 and GISAID: EPI_ISL_404253).

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.⁵ 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 0.5 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney cells infected with SARS-CoV-2, isolate USA-IL1/2020.

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

Packaging/Storage:

NR-52381 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>: Cercopithecus aethiops kidney cells (Vero E6; ATCC[®] CRL-1586™)

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 1.5 g/L of sodium bicarbonate supplemented with 2% fetal bovine serum or equivalent

Infection: Cells should be 70% to 80% confluent Incubation: 4 to 6 days at 37°C and 5% CO₂
Cytopathic Effect: Cell rounding and sloughing

Citation:

Acknowledgment for publications should read "The following reagent was deposited by the Centers for Disease Control and Prevention and obtained through BEI Resources, NIAID, NIH: SARS-Related Coronavirus 2, Isolate USA-IL1/2020, NR-52381."

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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; 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,

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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:

- 1. Thunberg, N., Personal Communication.
- 2. GISAID
- Rambaut, A. et al. "A Dynamic Nomenclature Proposal for SARS-CoV-2 Lineages to Assist Genomic Epidemiology." Nat. Microbiol. (2020): doi: 10.1038/s41564-020-0770-5. PubMed: 32669681.
- Daniele, M. 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.
- 5. 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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