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SUPPORTING INFECTIOUS DISEASE RESEARCH

SARS-Related Coronavirus 2, Isolate Germany/BavPat1/2020

Catalog No. NR-52370

# For research use only. Not for human use.

### Contributor:

Roman Wölfel, M.D., and Rosina Ehmann, Ph.D., Bundeswehr Institute of Microbiology, Munich, Germany

## Manufacturer:

**BEI Resources** 

## **Product Description:**

Virus Classification: Coronaviridae, Betacoronavirus

<u>Species:</u> Severe acute respiratory syndrome-related coronavirus 2

- <u>Isolate</u>: Germany/BavPat1/2020 (also referred to as Germany/MUC-IMB1/2020 or Human/DEU/BavPat1-ChVir929/2020)<sup>1,2</sup>
- Original Source: Severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), isolate Germany/BavPat1/2020 was isolated from a sputum sample from a mildly symptomatic adult male patient identified as Patient One in the Bavarian cluster on January 28, 2020 in Bavaria, Germany.<sup>1,2,3</sup>
- <u>Comments</u>: Under the nomenclature system introduced by GISAID (Global Initiative on Sharing All Influenza Data), SARS-CoV-2, isolate Germany/BavPat1/2020 is assigned lineage B and GISAID clade G using Phylogenetic Assignment of Named Global Outbreak LINeages (PANGOLIN) tool.<sup>4,5,6</sup> The complete genome sequence of SARS-CoV-2, isolate Germany/BavPat1/2020 has been sequenced (GenBank: <u>MT270101</u> and GISAID: EPI\_ISL\_406862).

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.<sup>7</sup> 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 Germany/BavPat1/2020.

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

# Packaging/Storage:

NR-52370 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<sup>®</sup> CRL-1586<sup>™</sup>)

<u>Growth Medium</u>: 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

<u>Infection</u>: Cells should be 70% to 80% confluent <u>Incubation</u>: 2 to 4 days at 37°C and 5% CO<sub>2</sub> <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 Germany/BavPat1/2020, NR-52370."

# **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. <u>Biosafety in Microbiological and Biomedical Laboratories</u>. 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, 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. Wölfel, R. and R. Ehmann, Personal Communication.
- Bohmer, M. M., et al. "Investigation of a COVID-19 Outbreak in Germany Resulting from a Single Travel-Associated Primary Case; A Case Series." <u>Lancet Infect.</u> <u>Dis.</u> doi: 10.1016/S1473-3099(20)30314-5. PubMed: 32422201.
- Rothe, C., et al. "Transmission of 2019-nCoV Infection from an Asymptomatic Contact in Germany." <u>N. Engl. J.</u> <u>Med.</u> 10 (2020): 970-971. PubMed: 32003551.
- 4. GISAID
- Rambaut, A., et al. "A Dynamic Nomenclature Proposal for SARS-CoV-2 Lineages to Assist Genomic Epidemiology." <u>Nat. Microbiol.</u> (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.
- Graliński, L. E. and V. D. Menachery. "Return of the Coronavirus: 2019-nCoV." <u>Viruses</u> 12 (2020): 135. PubMed: 31991541.

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