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

Catalog No. NR-52370

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Manufacturer:
BEI Resources

Product Description:

Virus Classification: Coronaviridae, Betacoronavirus
Species: Severe acute respiratory syndrome-related coronavirus 2
Isolate: Germany/BavPat1/2020 (also referred to as Germany/MUC-IMB1/2020 or Human/DEU/BavPat1-ChVir929/2020)\textsuperscript{1,2}

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.\textsuperscript{1,2,3}

Comments: Under the nomenclature system introduced by GISAID (Global Initiative on Sharing All Influenza Data), SARS-CoV-2, isolate Germany/BavPat1/2020 was assigned lineage B and GISAID clade G using Phylogenetic Assignment of Named Global Outbreak LINeages (PANGOLIN) tool.\textsuperscript{4,5,6} The complete genome sequence of SARS-CoV-2, isolate Germany/BavPat1/2020 has been sequenced (GenBank: MT270101 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.\textsuperscript{7} 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.

Note: 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:

Host: 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: 2 to 4 days at 37°C and 5% CO₂

Cytopathic Effect: 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


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References:
4. GISAID

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