



Heat-inactivated SARS-CoV-2 variant B.1.1.7

VR-3326HK™

Description

VR-3326HK is a preparation of SARS-CoV-2 strain USA/CA_CDC_5574/2020 (Alpha variant) that has been inactivated by heating. The strain was isolated in December 2020 from a nasopharyngeal swab from a human in San Diego, California, and was deposited by the Centers for Disease Control and Prevention. This heat-inactivated preparation is whole-genome sequenced and can be used as a process control in the development of SARS-CoV-2 molecular diagnostic tools and can also be used to make a dilution series to estimate the level of detection. Due to high demand, this product is limited to 20 per organization per 60 days.

Strain designation: USA/CA_CDC_5574/2020

Common name: SARS-CoV-2

Shipping information: Each vial contains approximately 0.25 mL of heat-inactivated, clarified cell lysate and supernatant from Vero cells infected with SARS-CoV-2 strain USA/CA_CDC_5574/2020. The vial should be centrifuged prior to opening.

Storage Conditions

Product format: Frozen

Storage conditions: -70°C or colder

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Notes

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This isolate is lineage B.1.1.7, clade GR according to GISAID (Global Initiative on Sharing All Influenza Data) conventions.

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The following mutations were identified in the clinical isolate: Spike A570D, Spike D614G, Spike D1118H, Spike H69del, Spike N501Y, Spike P681H, Spike S982A, Spike T716I, Spike V70del, Spike Y145del, M (Membrane protein) V70L, N (Nucleocapsid protein) D3L, N G204R, N R203K, N S235F, NS3 T223I, NS8 (Non-structural protein 8) Q27stop, NS8 R52I, NS8 Y73C, NSP3 (Non-structural protein 3) A890D, NSP3 I1412T, NSP3 T183I, NSP6 (Non-structural protein 6) F108del, NSP6 G107del, NSP6 S106del, NSP12 (Non-structural protein 12) P323L, NSP13 (Non-structural protein 13) A454V, NSP13 K460R.

One additional SNP in ORF1ab L3826F was reported in the deposited passage two virus, in comparison to the clinical specimen.

Each vial contains approximately 0.25 mL of heat-inactivated, clarified cell lysate and supernatant from Vero cells infected with SARS-CoV-2 strain USA/CA_CDC_5574/2020. The vial should be centrifuged prior to opening.

The long-term stability of this preparation is not known at this time. It is recommended that users confirm the activity of the product if not used within three months of receipt.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Heat-inactivated SARS-CoV-2 variant B.1.1.7 (ATCC VR-3326HK)

References

References and other information relating to this material are available at www.atcc.org.

Warranty

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