



Heat-inactivated SARS-CoV-2, Omicron variant

VR-3347HK™

Description

This product is a preparation of Severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2) strain USA/GA-EHC-2811C/2021 (Omicron variant) that has been inactivated by heating at 65°C for 30 minutes and is therefore unable to replicate. 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 SARS-CoV-2 detection.

Due to the dynamic nature of lineage determination using PANGO, it is recommended to confirm the provided GISAID information prior to initiation of work.

Strain designation: USA/GA-EHC-2811C/2021

Common name: SARS-CoV-2

Shipping information: Each vial contains approximately 0.25 mL of heat-inactivated, clarified cell lysate and supernatant from Calu-3 cells infected with SARS-CoV-2 strain USA/GA-EHC-2811C/2021. 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

Due to high demand, this product is limited to 20 vials per organization per 60 days.

This isolate is lineage BA.1 (Pango v.3.1.19 2022-01-20), Omicron (BA.1-like) (Scorpio), and **GISIAD** clade GRA using the Phylogenetic Assignment of Named Global Outbreak

Heat-inactivated SARS-CoV-2, Omicron variant VR-3347HK

lineages (PANGO) tool. Due to the dynamic nature of lineage determination using PANGO, discrepancies may exist between vial labels and the current lineage assignment. Previous iterations of PANGO identified this isolate as lineage B.1.1.529.

The complete genome of the clinical isolate of SARS-CoV-2, USA/GA-EHC-2811C/2021 has been sequenced (GISAID: EPI_ISL_7171744). The following mutations are present in the clinical isolate: Spike A67V, Spike D614G, Spike D796Y, Spike E484A, Spike G142D, Spike G339D, Spike G446S, Spike G496S, Spike H69del, Spike H655Y, Spike ins214EPE, Spike K417N, Spike L212I, Spike L981F, Spike N211del, Spike N440K, Spike N501Y, Spike N679K, Spike N764K, Spike N856K, Spike N969K, Spike P681H, Spike Q493R, Spike Q498R, Spike Q954H, Spike S371L, Spike S373P, Spike S375F, Spike S477N, Spike T95I, Spike T478K, Spike T547K, Spike V70del, Spike V143del, Spike Y144del, Spike Y145del, Spike Y505H, E T9I, M A63T, M D3G, M Q19E, N E31del, N G204R, N P13L, N R32del, N R203K, N S33del, NSP3 A1892T, NSP3 K38R, NSP3 L1266I, NSP3 S1265del, NSP4 T492I, NSP5 P132H, NSP6 G107del, NSP6 I189V, NSP6 L105del, NSP6 S106del, NSP12 P323L, NSP14 I42V. It was labelled as variant of concern (VOC) Omicron by the [World Health Organization](#) (WHO).

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, Omicron variant (ATCC VR-3347HK)

References

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

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Heat-inactivated SARS-CoV-2, Omicron variant VR-3347HK

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