Heat-inactivated SARS-CoV-2, Delta variant
VR-3342HK™

Description
This product is a preparation of Severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2) strain USA/MD-HP05285/2021 (Delta 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 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/MD-HP05285/2021
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 (ATCC HTB-55) infected with SARS-CoV-2 strain USA/MD-HP05285/2021. 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.

---

**Biosafety Level 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](http://www.atcc.org).
Notes

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

This isolate is lineage AY.24 (Pango v.3.1.14 2021-09-28), Delta (B.1.617.2-like) (Scorpio), and GISAID clade GK using Phylogenetic Assignment of Named Global Outbreak lineages (PANGO) tool. Due to the dynamic nature of lineage determination using PANGO, discrepancies may exist between vial labels and the current lineage assignment.


This product is a preparation of Severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2) strain USA/MD-HP05285/2021 that has been inactivated by heating at 65° for 30 minutes and is therefore unable to replicate.

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, Delta variant (ATCC VR-3342HK)

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

Warranty
The product is provided ‘AS IS’ and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

Disclaimers
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. Any proposed commercial use is prohibited without a license from ATCC.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate or complete and the customer bears the sole responsibility of confirming the accuracy and completeness of any such information.

This product is sent on the condition that the customer is responsible for and assumes all risk and responsibility in connection with the receipt, handling, storage, disposal, and use of the ATCC product including without limitation taking all appropriate safety and handling precautions to minimize health or environmental risk. As a condition of receiving the material, the customer agrees that any activity undertaken with the ATCC product and any progeny or modifications will be conducted in compliance with all applicable laws, regulations, and guidelines. This product is provided 'AS IS' with no representations or warranties whatsoever except as expressly set forth herein and in no event shall ATCC, its parents, subsidiaries, directors, officers, agents, employees, assigns, successors, and affiliates be liable for indirect, special, incidental, or consequential damages of any kind in connection with or arising out of the customer's use of the product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of such materials.

Please see the material transfer agreement (MTA) for further details regarding the use of this product. The MTA is available at www.atcc.org.

---

Copyright and Trademark Information

© ATCC 2021. All rights reserved.
ATCC is a registered trademark of the American Type Culture Collection.
Revision

This information on this document was last updated on 2022-03-06

Contact Information

ATCC
10801 University Boulevard
Manassas, VA 20110-2209
USA
US telephone: 800-638-6597
Worldwide telephone: +1-703-365-2700
Fax number: 703-365-2701
Email: tech@atcc.org or contact your local distributor