



Human parainfluenza virus 4a

VR-3350™

Description

Human parainfluenza virus 4a strain M-25 is propagated in Vero.STAT1 KO cells (ATCC CCL-81-VHG). This viral strain was isolated originally from the throat swab of a patient with a mild upper respiratory tract illness and was derived by cell culture adaptation of ATCC VR-1378 in Vero.STAT1 KO (ATCC CCL-81-VHG).

Strain designation: M-25

Common name: HPIV-4a

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 2

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

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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.

Growth Conditions

Host: Vero.STAT1 KO (ATCC CCL-81-VHG)

Effects: cell rounding; elongation (fibroblast-like morphology); cell sloughing

Complete medium: Eagle's Minimum Essential Medium (ATCC 30-2003) + 10 BAEE/mL of TPCK-Trypsin

Temperature: 36°C

Recommendations for infection: Plate cells 24-48 hours prior to infection and infect when cultures are 85-100% confluent. Remove medium and rinse the flask/plate twice with neat EMEM because the presence of serum will inactivate the TPCK-Trypsin. Inoculate with a small volume of virus (e.g. 1 mL per 25 cm²) diluted to provide an optimal MOI (e.g. 0.1). Adsorb 1-2 hours at 36°C in a humidified 5% CO₂ atmosphere on a rocker. End adsorption by adding virus growth medium.

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Notes

ATCC VR-3350 was derived by cell culture adaptation of ATCC VR-1378 in Vero.STAT1 KO (ATCC CCL-81-VHG). ATCC VR-3350 has not been compared for sequence or infectivity in primary cell culture and tissue culture.

Key Abbreviations: °C, Degrees Celsius; CO₂, Carbon dioxide; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; MOI, Multiplicity of infection

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Human parainfluenza virus 4a (ATCC VR-3350)

References

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

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Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor
