Human rhinovirus 1A

VR-1559™

Description

Human rhinovirus 1A strain 2060 is propagated in H1HeLa cells (ATCC CRL-1958). This strain was isolated from the naso-pharyngeal washings of a patient with mild respiratory illness in Ohio and was deposited by the National Institute of Allergy and Infectious Diseases (NIAID). It has applications in respiratory disease research.

Strain designation: 2060
Common name: Human rhinovirus 1A
Deposited As: Rhinovirus 1a

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

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: H1HeLa (ATCC CRL-1958)
Effects: CPE; cell rounding; cell sloughing
Complete medium:
EMEM (ATCC 30-2003) + 2% FBS (ATCC 30-2020)
Temperature: 33°C
Atmosphere: 95% Air, 5% CO_2
Recommendations for infection: For best results, infection should be performed on a 80-90% confluent, 18-48 hour old cellular monolayer. Prepare dilution of virus in minimum amount of volume (e.g. 1 mL per 25 cm^2). Wash monolayer with PBS or serum free medium prior to inoculation. Adsorb virus dilution for 1-2 hours at 37°C in a humidified 5% CO_2atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.

Incubation: 1-4 days at 33°C in a humidified 5% CO_2atmosphere, until CPE is progressed through 80% of the monolayer.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

ATCC VR-1559 was created by solvent treating *Mycoplasma* positive ATCC VR-1364, passaging it three times and finding no detectable *Mycoplasma* by PCR. ATCC VR-1364 was derived by replenishment (passage) of NIAID reagent V-101-003-021 (ATCC VR-1110) at the ATCC.

Key Abbreviations: °C, Degrees Celsius; CO_2, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; H1 HeLa, Human cervical carcinoma cell derivative; NIAID, National Institute of Allergy and Infectious Diseases; PCR, Polymerase chain reaction; PBS, Phosphate-buffered saline

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Human rhinovirus 1A (ATCC VR-1559)

References

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

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Revision

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