



Human rhinovirus 16

VR-283™

Description

Human rhinovirus 16 strain 11757 is propagated in H1HeLa cells (ATCC CRL-1958). This strain was isolated in 1960 from a throat swab from a healthy 2-year-old human female in Washington, DC. It has applications in respiratory and infectious disease research.

Strain designation: 11757

Common name: Rhinovirus 16, HRV-16

Deposited As: Rhinovirus 16

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: cell rounding; cell sloughing; CPE

Complete medium:

EMEM (ATCC 30-2003) + 2% FBS (ATCC 30-2020)

Temperature: 33°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: Plate cells 24-48 hours prior to infection and infect when cultures are 80-90% confluent. Remove medium and inoculate with a small volume (e.g., 1 mL per 25 cm²) of virus diluted to provide an optimal MOI (e.g., 0.1). Adsorb 1-2 hours at 33°C in a humidified 5% CO₂ atmosphere while continuously rocking. End adsorption by adding virus growth medium.

Incubation: 1-7 days in a humidified 5% CO₂ atmosphere until 90% of the culture

shows CPE.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

The pH of the medium should be maintained in a range of 7.0-7.3. Rocking of cultures during adsorption may enhance viral replication and CPE. Deposited as Rhinovirus HRV-16. HA is not demonstrated. Not inactivated by ether.

Key Abbreviations: °C, Degrees Celsius; CO₂, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; HA, Hemagglutination; 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 rhinovirus 16 (ATCC VR-283)

References

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

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