Human rhinovirus 83

VR-3341™

Description

Human rhinovirus 83 strain Baylor 7 is propagated in WI-38 cells (ATCC CCL-75). This animal virus has applications in respiratory disease and infectious disease research.
Strain designation: Baylor 7
Common name: Human rhinovirus B83
Deposited As: Rhinovirus 83

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: WI-38 (ATCC CCL-75)
Effects: CPE; cell rounding; cell sloughing
Complete medium: EMEM (ATCC 30-2003) + 2% FBS (ATCC 30-2020)
Temperature: 33°C
Recommendations for infection: Plate cells 16-24 hours prior to infection and infect when cultures are 80-100% confluent. Remove medium and inoculate with a small volume of virus (eg, 1 mL per 25 cm^2) diluted to provide an optimal MOI (eg, 0.5). Adsorb 1-2 hours at 33°C in a humidified 5% CO_2 atmosphere while rocking continuously. End adsorption by adding virus growth medium.
Incubation: 3 days at 33°C in a humidified 5% CO_2 atmosphere while rocking continuously, until CPE is progressed through 80% of the monolayer.

Notes

This culture replaces ATCC VR-1193 in the ATCC catalog. ATCC VR-1193 was prepared by the depositor; ATCC VR-3341 was prepared internally at ATCC.

Cytopathic effects may not progress after three days post infection (DPI). Time harvest study showed highest viral yield was at 3 DPI.

Optimal conditions for growth occur at pH 6.8-7.3 in roller or rocker cultures incubated at approximately 33°C. All members of the rhinovirus group are ether resistant.

Key Abbreviations: °C, Degrees Celsius; CO_2, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; MOI, Multiplicity of infection; NIAID, National Institute of Allergy and Infectious Diseases; WI-38, Human embryonic lung (diploid) cells

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Human rhinovirus 83 (ATCC VR-3341)

References

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

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Revision

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