



Human herpesvirus 5

VR-977™

Description

Human herpesvirus 5 strain Towne is propagated in MRC-5 cells (ATCC CCL-171). This strain was isolated from the urine of a human male with congenital cytomegalic inclusion disease. This product has applications in infectious disease research.

Strain designation: Towne

Common name: Cytomegalovirus

Deposited As: Cytomegalovirus

Shipping information: Infected viable cells + 7% DMSO

Storage Conditions

Product format: Frozen

Storage conditions: Vapor phase of liquid nitrogen

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: MRC-5 (ATCC CCL-171)

Effects: cell rounding; cell sloughing; CPE

Complete medium:

EMEM (ATCC 30-2003) + 10% FBS (ATCC 30-2020)

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: Trypsinize a 2-4 day old cell culture and seed at a density of 10⁵ cells per cm² (2.5x10⁶ cells/T25 flask; 7.5x10⁵ cells per T75 flask) using the virus growth medium (VGM). To the freshly trypsinized cells inoculate using a MOI of 0.1. Immediately add additional VGM depending upon the size of the flask used (recommended medium volume for T25 is 5 to 7 mL and for T75 15 to 22.5 mL). Incubate for 24 hours at 37°C in a 5% CO₂ atmosphere. Aspirate media and add fresh

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virus/cell growth medium to remove any traces of DMSO. Continue incubation.

Incubation: 2-7 days in a 5% CO₂ air atmosphere in a stationary position until CPE is seen

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Virus is primarily cell-associated

Key Abbreviations: °C, Degrees Celsius; CMV, cytomegalovirus; CO₂, Carbon dioxide; CPE, Cytopathic effect; DMSO, Dimethyl sulfoxide; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; MOI, Multiplicity of infection; MRC-5, Human embryonic lung cells

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Human herpesvirus 5 (ATCC VR-977)

References

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

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