



Human herpesvirus 5

VR-807™

Description

Human herpesvirus 5 strain Davis is propagated in MRC-5 cells (ATCC CCL-171). This strain was isolated from the liver biopsy of a 3-month-old human female with microencephaly and other symptoms resembling congenital toxoplasmosis. This product has applications in infectious disease research.

Strain designation: Davis

Common name: Cytomegalovirus

Deposited As: Cytomegalovirus

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

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 enlargement; cell rounding; CPE; foci formation; nuclear inclusions

Complete medium:

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

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: For best results, infection should be performed on an 80-90% confluent, 18-48 hour old cellular monolayer. Prepare dilution of virus in minimum amount of volume (e.g. 1 mL per 25 cm²), optimized for propagation (e.g. MOI 0.01-0.1 recommended). Wash monolayer two times with PBS or serum free medium prior to inoculation. Adsorb virus dilution for 1-2 hours at 37°C in a humidified 5% CO₂ atmosphere, rocking every 20-30 minutes to redistribute

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Product Sheet

inoculum. End adsorption by adding virus growth medium.

Incubation: 4-10 days at 37°C in a humidified 5% CO₂ atmosphere, until CPE is progressed through 80% of the monolayer.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Virus primarily cell-associated. For each passage, perform freeze-thaws to facilitate viral release. A long (10-11 day) incubation is required for initial passage of frozen stocks. Add contents of ampule to a 80-90% monolayer of cells. For preservation, add FBS to virus culture to produce a final 20% FBS concentration.

Key Abbreviations: CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; MOI, Multiplicity of infection; MRC-5, Human embryonic lung cells; 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 herpesvirus 5 (ATCC VR-807)

References

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

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