




Product Sheet


# Human herpesvirus 5 (ATCC® VR-977™)

Please read this **FIRST**



Storage Temp.  
**Liquid nitrogen  
vapor phase**

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Biosafety Level  
**2**

## Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Human herpesvirus 5 (ATCC® VR-977™)

## Shipping Information

Infected viable cells + 7% DMSO

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Strain:** Towne  
**Classification:** *Herpesviridae, Cytomegalovirus*  
**Common Name:** Human cytomegalovirus  
**Original Source:** Urine, man with congenital cytomegalic inclusion disease  
**Depositor:** SA Plotkin

## Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

## Propagation

**Propagation Host:**  
MRC-5 (ATCC® CCL-171™)  
**Effect on Host:**  
CPE, cells round, become refractile, eventually slough off the flask

**Medium:**  
EMEM (ATCC® 30-2003™) + 10% FBS (ATCC® 30-2020™)

## Growth Conditions

**Temperature:** 37°C

**Recommendations For Infection:** Trypsinize a 2-4 day old cell culture and seed at a density of 10<sup>5</sup> cells per cm<sup>2</sup> (2.5X10<sup>6</sup> cells/T25 flask; 7.5X 10<sup>5</sup> 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% CO<sub>2</sub> atmosphere. Aspirate media and add fresh virus/cell growth medium to remove any traces of DMSO. Continue incubation.

**Incubation:** 2-7 days in a 5% CO<sub>2</sub> air atmosphere in a stationary position until CPE is seen

## Comments

Virus is primarily cell-associated.

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

## Key Abbreviations

°C, degrees Celsius  
CMV, Cytomegalovirus  
CO<sub>2</sub> (CO2), carbon dioxide  
CPE, cytopathic effect  
DMSO, dimethylsulfoxide  
EMEM, Eagle's minimum essential medium  
FBS, fetal bovine serum  
MOI, multiplicity of infection  
MRC-5, human embryonic lung (diploid) cells

## Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

## ATCC Warranty


The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC



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lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

**Disclaimers**

This product is intended for laboratory research purposes only. It is not intended for use in humans. While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).  
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