



# Human herpesvirus

## 5

### VR-538™

#### Description

**Strain designation:** AD-169

**Common name:** Human herpesvirus 5

**Deposited As:** Cytomegalovirus

**Type strain:** No

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#### Storage Conditions

**Product format:** Frozen

**Storage conditions:** Vapor phase of liquid nitrogen

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#### 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.

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#### 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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

**Host:** MRC-5 (ATCC CCL-171)

**Effects:** cell enlargement; cell rounding; cell sloughing; CPE

**Complete medium:**

EMEM (ATCC<sup>®</sup> 30-2003<sup>™</sup>) + 10% FBS (ATCC<sup>®</sup> 30-2020<sup>™</sup> or 30-2021<sup>™</sup>)

**Temperature:** 36°C

**Atmosphere:** 95% Air, 5% CO<sub>2</sub>

**Recommendations for infection:** This product is produced by co-cultivation of virus with fresh host cells. Prepare a bulk cell suspension the day of inoculation. Seed culture vessels at 1.5 - 2.0 x 10<sup>4</sup> cells per cm<sup>2</sup>. Calculate the volume of virus needed to achieve an optimal MOI (e.g. 0.1 to 1) and then dilute virus in virus growth medium to prepare the virus inoculum. Add virus inoculum to culture vessels. Incubate for 24 hours at 36°C in a humidified 5% CO<sub>2</sub> atmosphere. Aspirate virus growth medium to remove any traces of DMSO and then add fresh virus growth medium to cultures. Continue

incubation.

**Incubation:** 4 to 11 days

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## Handling Procedures

**Mycoplasma contamination:** Not detected

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## Notes

Stable for 6 months at -60°C in the form of glycerinated cells.

**Key Abbreviations:** °C, Degrees Celsius; CO<sub>2</sub>, Carbon dioxide; CPE, Cytopathic effect; DMSO, Dimethyl sulfoxide; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; MOI, Multiplicity of infection

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## 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-538)

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## References

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

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