



# Human herpesvirus 3

VR-1367™

## Description

Human herpesvirus 3 strain Ellen is a mycoplasma-free strain derived from ATCC VR-586 by three passages in the presence of a mycoplasma removal agent. The strain was originally isolated from the vesicular fluid from a child with the chickenpox in Georgia, United States, and can be propagated in MRC-5 cells (ATCC CCL-171). Human herpesvirus 3 has applications in infectious disease research.

**Strain designation:** Ellen

**Common name:** Varicella zoster virus

**Deposited As:** Varicella-Zoster

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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 rounding; cell sloughing; CPE; syncytia

**Complete medium:**

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

**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. Seed culture vessels at  $1 \times 10^5$  cells per cm<sup>2</sup>. Calculate the volume of virus needed to achieve an optimal MOI (e.g. 0.01) 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

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virus growth medium to remove any traces of DMSO and then add fresh virus growth medium to cultures. Continue incubation.

**Incubation:** 4-7 days

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## Handling Procedures

**Mycoplasma contamination:** Not detected

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## Notes

Passage the virus by co-infection of fresh cells. Thaw ampoule in 37°C water bath.

Use virus to co-infect cells in a T25 flask for first passage. Multiple passages may enhance the titer. Preserve as you would live cells.

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

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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 3 (ATCC VR-1367)

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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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