



# Monkey cytomegalovirus

VR-677™

## Description

**Strain designation:** 68-1

**Common name:** African green monkey cytomegalovirus

**Deposited As:** Monkey cytomegalovirus

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -70°C or colder

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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

**Complete medium:**

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

**Temperature:** 35°C

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

**Recommendations for infection:** For best results cells should be 24 to 48 hours old and 70% - 80% confluent (not 100% confluent).

**Incubation:** 3 to 30 days; For best results, cells should be 24 to 48 hours old and 70-80% confluent (not 100% confluent) at inoculation.

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## Handling Procedures

**Mycoplasma contamination:** Not detected

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## Notes

Sensitive to heat (exposure to 56°C for 10 minutes completely inactivated 10<sup>4</sup>TCID<sub>50</sub> of Rhesus CMV). Initially produces enlarged, distorted nuclei with bizarre inclusions in infected human and monkey fibroblast TC. Has morphology of the herpes group (by EM).

**Key Abbreviations:** 68-1, first isolate from urine of female rhesus number 1 in 1968; CMV, cytomegalovirus; CO<sub>2</sub>, Carbon dioxide; CPE, Cytopathic effect; DMSO, Dimethyl sulfoxide; EM, Electron microscope; EMEM, Eagle's Minimum Essential Medium; FA, Fluorescent antibody assay; FBS, Fetal bovine serum; FITC, Fluorescein isothiocyanate conjugate; MAb, Monoclonal antibody; mL, Milliliter; MRC-5, Human embryonic lung cells; TC, Tissue culture; TCID<sub>50</sub>, Median tissue culture infective dose; WI-38, Human embryonic lung (diploid) cells

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Monkey cytomegalovirus (ATCC VR-677)

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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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## Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: [tech@atcc.org](mailto:tech@atcc.org) or contact your local distributor

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