



# Human rhinovirus 99

VR-1299™

## Description

**Strain designation:** 604

**Deposited As:** Rhinovirus type 99

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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:** HeLa (ATCC CCL-2)

human fibroblasts

**Effects:** cell clustering; cell death; cell rounding; cell sloughing; CPE

**Complete medium:**

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

**Temperature:** 33°C

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

**Recommendations for infection:** For best results cells should be 24 to 48 hours old and 80% - 90% confluent (not 100% confluent).

**Incubation:** 2 to 7 days at 33°C, rocking speed #1, a 5% CO<sub>2</sub> in air atmosphere is recommended.

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## Handling Procedures

**Mycoplasma contamination:** Not detected

## Notes

Does not cross-react with other recognized rhinoviruses. Grown in HeLa cells originally contaminated with *Mycoplasma orale* and then cured. No contamination detected in infected cell culture supernatant.

**Key Abbreviations:** °C, Degrees Celsius; bp, Base pairs; CO<sub>2</sub>, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; H1 HeLa, Human cervical carcinoma cell derivative; HeLa, Human cervical carcinoma cells; mL, Milliliter; MRC-5, Human embryonic lung cells; NCBI, National Center for Biotechnology Information; PCR, Polymerase chain reaction; TC, Tissue culture; TCID<sub>50</sub>, Median tissue culture infective dose

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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 rhinovirus 99 (ATCC VR-1299)

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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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