



# Human metapneumovirus

VR-3282™

## Description

Human metapneumovirus strain A/WI/629-D02421/2010 is propagated in LLC-MK2 derivative cells (ATCC CCL-7.1). This culture was isolated in 2010 from a human respiratory swab in Milwaukee, Wisconsin.

**Strain designation:** A/WI/629-D02421/2010

**Common name:** hMPV

**Deposited As:** Human metapneumovirus

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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

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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:** LLC-MK2 Derivative (ATCC CCL-7.1)

**Effects:** cell rounding; cell sloughing; cell detachment

**Complete medium:** EMEM (ATCC 30-2003) + 10 BAEE/mL TPCK-trypsin (Sigma T1426 or equivalent)

**Temperature:** 37°C

**Recommendations for infection:** Plate cells 24-48 hours prior to infection and infect when cultures are 90-100% confluent. Remove medium and inoculate with a small volume of virus (e.g., 1 mL per 25 cm<sup>2</sup>) diluted to provide an optimal MOI (e.g., 0.01). Adsorb 1-2 hours at 37°C in a humidified 5% CO<sub>2</sub> atmosphere. End adsorption by adding virus growth medium.

**Incubation:** 7-10 days at 37°C in a humidified 5% CO<sub>2</sub> atmosphere, until CPE is progressed through 30-60% of the monolayer.

## Notes

**Key Abbreviations:** °C, Degrees Celsius; CO<sub>2</sub>, Carbon dioxide; EMEM, Eagle's Minimum Essential Medium; 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 metapneumovirus (ATCC VR-3282)

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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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## Revision

This information on this document was last updated on 2026-02-24

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