



# Human enterovirus 71

VR-1432™

## Description

Human enterovirus 71 strain H is propagated in LLC-MK2 Derivative cells (ATCC CCL-7.1). This viral strain was isolated from vesicular fluid from an adult female with hand, foot, and mouth disease in Wuhan, China, and was deposited by Dr. Zhi-Ming Zheng of the National Cancer Institute. This viral strain has applications in enteric and infectious disease research.

**Strain designation:** H

**Deposited As:** Enterovirus 71

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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.

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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; CPE

**Complete medium:**

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

**Temperature:** 37°C

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

**Recommendations for infection:** Plate cells 24 hours prior to infection and infect when cultures are 70-80% 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. 0.001). Adsorb 1-2 hours at 37°C in a humidified 5% CO<sub>2</sub> atmosphere. End adsorption by adding virus growth medium.

**Incubation:** 2 to 6 days

## Handling Procedures

**Mycoplasma contamination:** Not detected

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## Notes

Partly neutralized by high titer anti-Coxsackievirus A16 antisera and is insensitive to BrdU (40 µg/mL).

**Key Abbreviations:** BrdU, bromodeoxyuridine; 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 enterovirus 71 (ATCC VR-1432)

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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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