



# Chikungunya virus

VR-3360™

## Description

Chikungunya virus strain 181/25 is an attenuated strain propagated in Vero C1008 cells (ATCC CRL-1586). This animal virus was isolated in 1962 from a human in Thailand.

**Strain designation:** 181/25

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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:** VERO C1008 [Vero 76, clone E6, Vero E6] (ATCC CRL-1586)

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

**Complete medium:** DMEM (ATCC 30-2002) + 2% FBS (ATCC 30-2020)

**Temperature:** 37°C

**Recommendations for infection:** Plate cells 24-48 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. 0.01). Adsorb 1 hour at 37°C in a humidified 5% CO<sub>2</sub> atmosphere. End adsorption by adding virus growth medium.

**Incubation:** 4-8 days at 37°C in a humidified 5% CO<sub>2</sub> atmosphere, until CPE is progressed through 80-90% of the monolayer.

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## Notes

Chikungunya virus, strain 181/25 is an attenuated derivative of strain AF15561, which was originally isolated from a human in Thailand in 1962. Attenuation of this strain is mediated by two amino acid substitutions in the E2 glycoprotein.

**Key Abbreviations:** °C, Degrees Celsius; CO<sub>2</sub>, Carbon dioxide; DMEM, Dulbecco's Modified Eagle's Medium; FBS, Fetal bovine serum; 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: Chikungunya virus (ATCC VR-3360)

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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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