Zika virus

VR-1838™

Description

Zika virus strain MR 766 was tissue culture-adapted from ATCC VR-84 and can be propagated in Vero cells (ATCC CCL-81). This strain was isolated from the blood of a rhesus monkey that became infected while stationed as a sentinel in a forest near Entebbe, Uganda. The strain was deposited by The Rockefeller Foundation. It has applications in infectious disease, vector-borne disease, and Zoonotic disease research.

Strain designation: MR 766 (Tissue culture-adapted from ATCC VR-84)
Deposited As: Zika

Storage Conditions

Product format: Frozen
Storage conditions: -70°C or colder

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.

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.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: Vero (ATCC CCL-81)
Effects: CPE; cell rounding
Complete medium:
EMEM (ATCC 30-2003) + 2% FBS (ATCC 30-2020)
Temperature: 37°C
Atmosphere: 95% Air, 5% CO_2
Recommendations for infection: Plate cells 18-24 hours prior to infection and infect when cultures are 75-80% confluent. Remove medium and then wash monolayer with PBS or serum free medium prior to inoculation. Inoculate with a small volume of inoculum (e.g. 1 mL per 25 cm^2) diluted to provide an optimal MOI (e.g. 0.1-0.01). Adsorb for 1-2 hours at 37°C in a humidified 5% CO_2atmosphere. End adsorption by

adding virus growth medium.
Incubation: 2-4 days at 37°C in a humidified 5% CO_2atmosphere, until CPE is progressed through 80-90% of the monolayer.

Notes

Derivation by adaptation from the *in vivo* cultured product ATCC® VR-84™ to Vero cells (ATCC® CCL-81™). The genomic sequences of ATCC® VR-84™ and ATCC® VR-1838™ have not been compared, and ATCC® VR-1838™ has not been tested for infectivity *in vivo*.
Key Abbreviations: EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; MOI, Multiplicity of infection; PBS, Phosphate-buffered saline; °C, Degrees Celsius; CO_2, Carbon dioxide; CPE, Cytopathic effect

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Zika virus (ATCC VR-1838)

References

References and other information relating to this material are available at 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 or contact your local distributor