Human herpesvirus 3

VR-1832™

Description

Human herpesvirus 3 strain Oka is propagated in MRC-5 cells (ATCC CCL-171). This strain was isolated from a vesicle from a 3-year-old male in Japan and was deposited by the Research Foundation for Microbial Diseases of Osaka University. It has applications in infectious disease research, assay development, and vaccine development.

Strain designation: Oka
Common name: Varicella zoster virus

Storage Conditions

Product format: Frozen
Storage conditions: Vapor phase of liquid nitrogen

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: MRC-5 (ATCC CCL-171)
Effects: CPE; cell rounding; cell degeneration
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 16-24 hours prior to infection and infect when cultures are 80-90% confluent. Remove medium and inoculate with a small volume of virus (e.g., 1 mL per 25 cm^2) diluted to provide an optimal MOI (e.g., 0.01). Adsorb 1-2 hours at 37°C in a humidified 5% CO_2 atmosphere. End adsorption by adding virus growth medium. Replace virus growth medium at one day post-inoculation to remove DMSO from the culture.

Harvest by removing culture medium and adding cell dissociation buffer. Dilute in freeze medium containing a final concentration of 7% DMSO and preserve with a controlled-rate freeze (1°C/minute).

Incubation: 3-4 days at 37°C in a humidified 5% CO_2 atmosphere, until CPE is progressed through 60% of the monolayer.

Notes

Live, attenuated vaccine strain. Thermosensitive compared with other wild type strains. Depositor screened by Neurovirulence safety test, and result was compliant.
Key Abbreviations: °C, Degrees Celsius; CO_2, Carbon dioxide; DMSO, Dimethyl sulfoxide; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; MOI, Multiplicity of infection

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Human herpesvirus 3 (ATCC VR-1832)

References

References and other information relating to this material are available at www.atcc.org.

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Revision

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