



Equine arteritis virus

VR-796™

Description

Strain designation: Bucyrus

Deposited As: Equine arteritis virus

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: LLC-MK2 Original (ATCC CCL-7)

Effects: abortion in horses; cell degeneration; cell rounding; CPE; influenza-like symptoms

Complete medium:

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

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: For best results cells should be 24 to 48 hours old and 80% - 90% confluent (not 100% confluent).

Incubation: 2-5 days

Handling Procedures

Mycoplasma contamination: Not detected

Notes

About 43 nm in diameter, extremely stable at -20°C and below; remains viable for 2 months or more at 4°C, but only for 2-3 days at 37°C; resistant to trypsin; not pathogenic for any animal except horse; solid immunity, probably lifelong, produced by infection; only one serotype known; no known cross-reactions; no hemagglutination and hemolysin produced.

Key Abbreviations: °C, Degrees Celsius; AB, Antibody; BHK-21, Hamster kidney cell line; CO₂, Carbon dioxide; CPE, Cytopathic effect; E, Equine; EAV, Equine arteritis virus; EMEM, Eagle's Minimum Essential Medium; FA, Fluorescent antibody assay; FBS, Fetal bovine serum; FITC, Fluorescein isothiocyanate conjugate; IgG, Immunoglobulin G; K, kidney; LLC-MK2, Rhesus monkey kidney cells; mL, Milliliter; MoAb, Monoclonal antibody; M (Ms), Mouse; nm, Nanometer; PFU, Plaque forming units; Pr, Primary; Rab, Rabbit; RK-13, Rabbit kidney cells; TC, Tissue culture; TCID₅₀, Median tissue culture infective dose; USDA, United States Department of Agriculture; VMRD, Veterinary Medical Research and Development

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Equine arteritis virus (ATCC VR-796)

References

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

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