



Vaccinia virus

VR-1566™

Product Sheet

Description

This product requires a VS 16-6A permit, which can be downloaded at the [USDA website here](#). Please submit the completed permit form to SalesPermits@atcc.org with your ATCC sales order number and/or your purchase number noted in the subject line and body of the email.

Strain designation: Modified vaccinia virus Ankara (MVA)

Deposited As: Vaccinia 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: SL-29 (ATCC CRL-1590)

Alternate Host(s): BHK-21 (ATCC CCL-10)

Effects: cell death; cell rounding; CPE

Complete medium:

DMEM (ATCC® 30-2002™) + 5% FBS (ATCC® 30-2021™) + 5% TPB

Temperature: 37°C

Recommendations for infection: For best results cells should be seeded at 5×10^4 cells/sq cm and infected when 80-90% confluent.

Incubation: 2-6 days at 37°C

Handling Procedures

Mycoplasma contamination: Not detected

Notes

VR-1566 was derived from the same CEF-passaged seed stock as was VR-1508, but VR-1566 was maintained in CEF cells (ATCC® # CRL-1590). The passage history of the MVA strain is complex (see Mayr & Stickl (1975)). The MVA Ankara strain has been passaged hundreds of times in CEF cells and does not replicate in human cells or the majority of mammalian cells. This is a highly attenuated strain of vaccinia that some experts feel can be handled safely by trained personnel without the need for vaccination. This strain has been sequenced (Genbank U94848).

Key Abbreviations: AB, Antibody; BHK-21, Hamster kidney cell line; CEF, Chicken embryo fibroblast cells; CO₂, Carbon dioxide; CPE, Cytopathic effect; CVA, Chorioallantoic vaccinia Ankara; DMEM, Dulbecco's Modified Eagle's Medium; DNA, Deoxyribonucleic acid; FBS, Fetal bovine serum; mL, Milliliter; MVA, Modified Vaccinia Virus Ankara; NIH, National Institutes of Health; PCR, Polymerase chain reaction; TC, Tissue culture; TPB, Tryptose phosphate broth; TCID₅₀, Median tissue culture infective dose

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Vaccinia virus (ATCC VR-1566)

References

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

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