



Vaccinia virus

VR-117™

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: CL

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.

Vaccination recommended for laboratory personnel working with vaccinia, monkeypox, or cowpox viruses

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 Derivative (ATCC CCL-7.1)

Alternate Host: Chicken embryo chorioallantoic membrane (CAM)

Effects: cell rounding; CPE; pock lesions on chorioallantoic membrane

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: Plant cells 24-48 hours in advance and infect when cultures are 90-95% confluent. Remove medium and inoculate with a small volume (e.g. 1 mL per 25 cm²) of virus diluted to provide a MOI of about 0.1. Adsorb 30 minutes at 37°C in a humidified 5% CO₂ atmosphere, rocking every 7-10 minutes to redistribute inoculum. End adsorption by adding virus growth medium.

Incubation: Incubate infected culture for 1-3 days at 37°C in a humidified 5% CO₂

2 atmosphere.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Key Abbreviations: °C, Degrees Celsius; CO₂, Carbon dioxide; CPE, Cytopathic effect; DMEM, Dulbecco's Modified Eagle's Medium; FBS, Fetal bovine serum; LLC-MK2, Rhesus monkey kidney cells; MOI, Multiplicity of infection

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Vaccinia virus (ATCC VR-117)

References

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

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