Vaccinia virus

VR-1605™

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: rVV-hgp100

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: Human TK cells (provided by the depositor (Dr. Zhiya Yu). Virus can be propagated in the following alternate hosts: BS-C-1 cells (ATCC CCL-26), Vero cells (ATCC CCL-81), and HeLa cells (ATCC CCL-2)
Effects: cell clustering; cell enlargement; cell rounding; CPE; plaque formation
Complete medium:
DMEM (ATCC® 30-2002™) + 2% FBS (ATCC® 30-2020™)
Temperature: 37°C
Atmosphere: 95% Air, 5% CO_2
Recommendations for infection: Plant cells 24-48 hours in advance and infect when cultures are 80-90% confluent. Process virus by freeze/ thawing virus three times by vapor phase of liquid nitrogen and 37°C water bath (vortex mixing on high speed for 20 seconds between each freeze/ thaw), sonicating with 40% power for 30 seconds, and then a final vortex mixing on high speed for 30 seconds. Remove cell growth medium from the flask, and inoculate with a small volume of virus stock diluted in

virus growth medium to provide a MOI of about 1-3. Adsorb 1-2 hours at 37°C in a humidified 5% CO_2 atmosphere, rocking every 15-20 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 atmosphere, until CPE are well advanced through 90% of the culture.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

VR-1605 is recombinant Vaccinia virus strain rVV-hgp100 that expresses human melanoma antigen gp100. It is considered a potent immunogen to activate tumor reactive T cells in both human and mice, and was developed by NCI.

Key Abbreviations: NCI, National Cancer Institute; NIH, National Institutes of Health; CPE, Cytopathic effect; 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-1605)

References

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

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