Seneca Valley virus

VR-1989™

Description

Seneca Valley virus (SVV) is a small, non-enveloped, positive-sense, single-stranded RNA picornavirus belonging to the family *Picornaviridae*, genus *Senecavirus*. Initially identified as a cell culture contaminant, it is now recognized as a pig pathogen of significance with only a single species identified in the Senecavirus genus. SVV has been demonstrated to have oncolytic properties, propagating in human tumor cells with selectivity for tumor cells with neuroendocrine properties. Apart from the agricultural significance, SVV is currently being utilized as a therapeutic modality involved in numerous Phase I and II clinical trials.

Strain designation: USA/IA9930/2016

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: NCI-H1299 (ATCC CRL-5803)
Effects: cell rounding; cell sloughing; cell detachment; cell clumping
Complete medium: RPMI-1640 (ATCC 30-2001) + 2% FBS (ATCC 30-2020) + 2mM L-Glutamine
Temperature: 37°C
Recommendations for infection: Plate cells 24-48 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., 1.0). Adsorb 1-2 hours at 37°C in a humidified 5% CO_2 atmosphere. End adsorption by

adding virus growth medium.
Incubation: 2-5 days at 37°C in a humidified 5% CO_2 atmosphere, until CPE is progressed through 80-99% of the monolayer.

Notes

Key Abbreviations: °C, Degrees Celsius; CO_2, Carbon dioxide; 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: Seneca Valley virus (ATCC VR-1989)

References

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

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