



Canine distemper virus

VR-1587™

Description

Canine distemper virus strain Snyder Hill was derived from ATCC VR-526 by adaptation to growth in Vero cells (ATCC CCL-81). ATCC VR-526, deposited by L.E. Carmichael, was isolated from the brain of a dog with clinical distemper in September 1950. Because it was propagated in animal tissue, ATCC will no longer offer that product.

Strain designation: Snyder Hill (cell culture adapted)

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 submerged 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 submerged 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: Vero (ATCC CCL-81)

Effects: CPE; cell rounding; cell sloughing; cytoplasmic vacuolation

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 70% - 90% confluent (not 100% confluent).

Incubation: 5 to 7 days at 37°C, a 5% CO₂ in air atmosphere is recommended

Handling Procedures

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Mycoplasma contamination: Not detected

Notes

Neurological signs are produced with regularity only when inoculated intracerebrally. This strain does not produce hemagglutinin or hemolysin. It is used primarily as a challenge strain to test dogs for immunity to this disease. Cross-immunity tests in dogs have shown it to be similar to other classical strains of CDV.

Key Abbreviations: °C, Degrees Celsius; CDV, Canine distemper virus; CO₂, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; Vero, African green monkey kidney cells; 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: Canine distemper virus (ATCC VR-1587)

References

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

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