



Canine parvovirus

VR-953™

Description

Strain designation: C-780916

Deposited As: Canine parvovirus

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: A-72 (ATCC CRL-1542)

Effects: cell rounding; cell sloughing; CPE

Temperature: 35°C

Recommendations for infection: Plate cells 2-4 hours prior to infection and infect when cultures are 30-40% confluent. Remove medium and inoculate with a small volume of virus (e.g. 1 mL per 25 cm²) diluted to provide an optimal MOI (e.g. 0.1). Adsorb 1-2 hours at 35°C in a humidified atmosphere, rocking every 15 minutes to redistribute inoculum. End adsorption by adding virus growth medium.

Incubation: Incubate infected culture for 3-9 days at 35°C in a humidified atmosphere, until CPE are well advance throughout.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Non-pathogenic for neonatal pups. Antigenically indistinguishable from Feline panleukopenia virus and Mink enteritis virus, but has broader host range and different HA spectrum, especially in regards to pH conditions. Hemagglutinates porcine, Rh+ monkey, and feline red blood cells at pH 6.0-7.5. May fail to immunize dogs if passaged 8-10 times in feline cells.

Key Abbreviations: A-72, Canine fibroblast tumor cells; °C, Degrees Celsius; CO₂, Carbon dioxide; CPE, Cytopathic effect; CRFK, Crandell feline kidney cells; HA, Hemagglutination; MOI, Multiplicity of infection; Mv-1 Lu, Mink lung cells; RBC, Red blood cell; MOI, Multiplicity of infection

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Canine parvovirus (ATCC VR-953)

References

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

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