



# Feline immunodeficiency virus

VR-1312™

## Description

**Strain designation:** Petaluma (CRFK adapted)

**Deposited As:** feline immunodeficiency virus

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** Vapor phase of liquid nitrogen

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## 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.

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## 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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

**Host:** This virus is continuously produced by the cell line in which it is shipped. No additional host is required, however, if desired the virus may be used to infect other cells, which are listed as alternate hosts.

**Effects:** Immunodeficiency-like syndrome in cats; reverse transcriptase activity in host cells

**Complete medium:**

EMEM (ATCC® 30-2003™) + 10% FBS (ATCC® 30-2020™)

**Temperature:** 37°C

**Atmosphere:** 95% Air, 5% CO<sub>2</sub>

**Incubation:** 3 to 7 days at 37°C, a 5%CO<sub>2</sub> in air atmosphere is recommended.

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## Handling Procedures

**Mycoplasma contamination:** Detected

## Notes

The ATCC® VR-1312 consists of CRFK cells chronically infected with Feline Immunodeficiency virus. This strain of FIV-Petaluma grows with some difficulty on primary peripheral blood mononuclear cells and may be less pathogenic for cats. However it has all of the in vitro properties of the parent strain.

NOTE: This preparation has tested positive for *Mycoplasma hyorhinis* by PCR. This strain of *Mycoplasma* does not grow in agar.

**Key Abbreviations:** CRFK, Crandell feline kidney cells; DMSO, Dimethyl sulfoxide; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; FIV, Feline immunodeficiency virus; mL, Milliliter; NCBI, National Center for Biotechnology Information; PCR, Polymerase chain reaction; RT, Reverse transcriptase; TC, Tissue culture; TCID<sub>50</sub>, Median tissue culture infective dose; bp, Base pairs; CO<sub>2</sub>, Carbon dioxide; CPE, Cytopathic effect

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Feline immunodeficiency virus (ATCC VR-1312)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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