

Feline Infectious Peritonitis Virus, 79-1146

Catalog No. NR-736

This reagent is the property of the U.S. Government.

For research use only. Not for human use.

NR-736 did not pass the BEI Resources quality control Mycoplasma Culture Test. Please see the Certificate of Analysis to determine whether or not this product is acceptable for your intended use.

Contributor:

BEI Resources

Manufacturer:

Linda J. Saif, Ph.D., Food Animal Health Research Program, Ohio Agricultural Research and Development Center, Department of Veterinary Preventive Medicine, College of Veterinary Medicine, The Ohio State University, Wooster, Ohio

Product Description:

Virus Classification: *Coronaviridae*, *Coronavirus*, Group 1

Species: Feline infectious peritonitis virus (FIPV)

Strain/Isolate: 79-1146

Original Source: FIPV, 79-1146 was isolated from a 4-day-old domestic cat diagnosed with pneumonia and pleuritis upon neonate death.¹

Comment: The complete genome sequence of FIPV, 79-1146 is available (GenBank: AY994055).²

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from Crandell Rees feline kidney (CRFK) cells infected with FIPV, 79-1146.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-736 was packaged in screw-capped plastic cryovials. The product is provided frozen and should be stored at -70°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Growth Conditions:

Host: CRFK cells

Medium: Minimum Essential Medium supplemented with 2% fetal bovine serum, or equivalent

Incubation: 48 to 72 hours at 37°C

Cytopathic Effect: Multinucleated giant cells within 48 hours followed by rapid cell rounding and detachment

Alternate Host:³ *Felis catus* whole fetus (fcwf) cells

Note: FIPV cross reacts with antisera to feline coronavirus, feline infectious peritonitis (NOR15), and canine

coronavirus (1-71).

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Feline Infectious Peritonitis Virus, 79-1146, NR-736."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. McKeirnan, A. J., et al. "Isolation of Feline Coronaviruses from Two Cats with Diverse Disease

- Manifestations." Feline Pract. 11 (1981): 16-20.
2. Haijema, B. J., et al. "Feline Infectious Peritonitis Virus, Complete Genome." Direct Submission, 30 Mar 2005. GenBank: AY994055.
 3. Pedersen, N. C., et al. "Pathogenicity Studies of Feline Coronavirus Isolates 79-1146 and 79-1683." Am. J. Vet. Res. 45 (1984): 2580-2585. PubMed: 6084432.
 4. de Groot-Mijnes, J. D. F., et al. "Natural History of a Recurrent Feline Coronavirus Infection and the Role of Cellular Immunity in Survival and Disease." J. Virol. 79 (2005): 1036-1044. PubMed: 15613332.

ATCC® is a trademark of the American Type Culture Collection.

