

Genomic RNA from Alphacoronavirus 1 (Feline Infectious Peritonitis Virus), 79-1146

Catalog No. NR-49097

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Contributor:

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Manufacturer:

BEI Resources

Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from Crandell Rees feline kidney cells (CRFK; ATCC® CCL-94™) infected with alphacoronavirus 1, 79-1146. Alphacoronavirus 1, 79-1146 was formerly known as feline infectious peritonitis virus (FIPV), 79-1146 or feline coronavirus (FCoV), 79-1146.¹ Alphacoronavirus 1, 79-1146 was isolated from a 4-day-old domestic cat diagnosed with pneumonia and pleuritis upon neonatal death.^{2,3} The complete genome sequence of Alphacoronavirus 1 (FIPV), 79-1146 is available (GenBank: [AY994055](https://www.ncbi.nlm.nih.gov/nuccore/AY994055)).

NR-49097 has been qualified for PCR applications by amplification of approximately 980 base pairs of the glycoprotein gene. Recommended dilutions for successful RT-PCR amplification are indicated on the Certificate of Analysis for each lot.

Material Provided:

Each vial contains 100 µL of viral genomic RNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.0). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-49097 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -60°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic RNA from Alphacoronavirus 1 (Feline Infectious Peritonitis Virus), 79-1146, NR-49097.”

Biosafety Level: 1

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/bmb15/index.htm.

Disclaimers:

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References:

1. [ICTV Taxonomy History for Alphacoronavirus 1](#)
2. McKeirnan, A. J., et al. “Isolation of Feline Coronaviruses from Two Cats with Diverse Disease Manifestations.” [Feline Pract.](#) 11 (1981): 16-20.
3. 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.

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