

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

Catalog No. NR-49097

Product Description: Genomic RNA was isolated from a preparation of cell lysate and supernatant from Crandell Rees feline kidney cells¹ 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.

Lot²: 70016781

Manufacturing Date: 18JUL2018

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 880 nucleotides)	≥ 98% identity with Alphacoronavirus 1 (FIPV), 79-1146 (GenBank: AY994055.1) Consistent with source organism (BEI Resources NR-43287)	99.9% identity with Alphacoronavirus 1 (FIPV), 79-1146 (GenBank: AY994055.1) Consistent with NR-43287
Functional Activity by RT-PCR Amplification³ Glycoprotein gene	~ 980 base pair amplicon	~ 980 base pair amplicon (Figure 1)
Pre-Vial Concentration by RiboGreen[®] Measurement (Viral, Cellular and Carrier)⁴	Report results	1.5 ng per 100 µL (0.015 µg/mL)
Estimated Amount per Vial⁴	Report Results	1.5 ng
Virus Inactivation 10% of total yield inoculated on CRFK cells ¹ and evaluated for cytopathic effect (CPE) ⁵	No viable virus detected	No viable virus detected

¹Crandell Rees feline kidney cells (CRFK): ATCC[®] CCL-94[™]

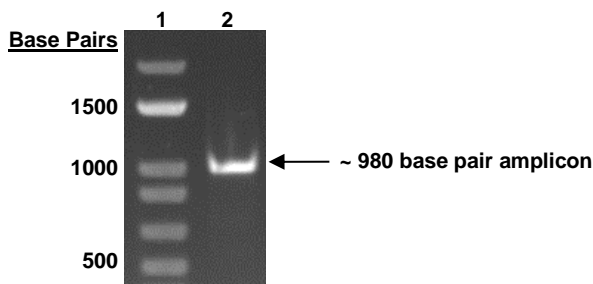
²Nucleic acid was extracted from a preparation of alphacoronavirus 1, 79-1146 (BEI Resources NR-43287 lot 61617362), using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

³Reverse transcription was performed using an iScript[™] cDNA Synthesis Kit (Bio-Rad 170-8891) with 10 µL of NR-49097 in a 20 µL reaction; PCR was performed using iTaq[™] DNA Polymerase (Bio-Rad 170-8870) with 5 µL of cDNA in a 50 µL reaction.

⁴Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method.

⁵Use of the QIAamp[®] Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of alphacoronavirus 1 as shown by the absence of CPE after plating the entire extract on virus-susceptible cells.

Figure 1: Functional Activity of NR-49097 by RT-PCR Amplification of Glycoprotein Gene



Lane 1: Invitrogen[™] TrackIt[™] 1 Kb Plus DNA Ladder

Lane 2: PCR product from 1 µL of NR-49097

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27 DEC 2018

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