

Alphacoronavirus 1, 79-1146 [formerly Feline Infectious Peritonitis Virus (FIPV)]

Catalog No. NR-43287

Product Description:

FIPV, 79-1146 was isolated from a 4-day-old domestic cat diagnosed with pneumonia and pleuritis upon neonatal death. NR-43287 lot 70041160 was produced by infecting Crandell Rees Feline Kidney cells (CRFK; ATCC® CCL-94™) and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 2 days at 37°C with 5% CO₂.

Passage History:

X(?)/CRFK(7) (Prior to deposit/BEI Resources); X = Unknown; CRFK = Crandell Rees feline kidney cells

Lot: 70041160

Manufacturing Date: 08APR2021

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TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in CRFK Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 870 nucleotides)	≥ 98% identity with alphacoronavirus 1, 79-1146 (GenBank: AY994055)	99.9% identity with alphacoronavirus 1, 79-1146 (GenBank: AY994055)
Titer by TCID₅₀ Assay in CRFK Cells by Cytopathic Effect¹ (3 days at 37°C and 5% CO ₂)	Report results	1.6 × 10 ⁷ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ² Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C, aerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	None detected None detected

¹The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

²Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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