

Kern Canyon Virus, M-206

Catalog No. NR-17597

Product Description:

Kern Canyon virus (KCV), M-206 was isolated from a mouse-eared bat (*Myotis yumanensis*) in Kern Canyon, California in 1956. In order to remove contaminating mycoplasma, the deposited material was passaged three times in mycoplasma removal agent (Plasmocin; InvivoGen ant-MPP). NR-17597 lot 70026757 was produced by infecting *Cercopithecus aethiops* kidney epithelial cells (Vero E6; ATCC® CRL-1586™) with the treated material and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 7 days at 37°C with 5% CO₂.

Passage History:

X(?)/VE(4) (Prior to deposit at BEI Resources/BEI Resources); X = Unknown; VE = Vero E6 cells

Lot: 70026757

Manufacturing Date: 03OCT2019

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero E6 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 920 nucleotides)	≥ 98% identity with KCV	99.9% identity with KCV, strain M03790 (GenBank: KM204992.1) ¹
Titer by TCID ₅₀ Assay in Vero E6 Cells by Cytopathic Effect ² (6 days at 37°C with 5% CO ₂)	Report results	8.9 × 10 ⁸ TCID ₅₀ per mL
Amplification of KCV Sequence by RT-PCR	~ 1000 base pair amplicon	~ 1000 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ³ 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 and 5% CO ₂	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

¹Sequence information for KCV, M-206 is not available in the NCBI database; nucleotide sequence obtained for NR-17597 lot 70026757 is ≥ 98% identical to KCV, strain M03790 which is contemporary with strain M-206 and was also collected from a bat in the USA in 1956 (see Walker, P. J., et al. "Evolution of Complexity and Genome Size in the *Rhabdoviridae*." *PLoS Pathog.* 11 (2015): e1004664. PubMed: 25679389).

²The 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.

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

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