

Parechovirus A Type 3, US/MO-KC/2012/006

Catalog No. NR-51186

Product Description: Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells¹ infected with parechovirus A type 3 (PeV-3), US/MO-KC/2012/006

Passage History: VP3/V2 (Prior to deposit at BEI Resources/BEI Resources); VP# = Number of passages in Vero-P cells; V# = Number of passages in Vero cells

Lot²: 70012061

Manufacturing Date: 05MAR2018

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero cells	Cell rounding and detachment	Cell rounding and sloughing
Sequencing of Species-Specific Region (~800 nucleotides)	Consistent with PeV-3	Consistent with PeV-3 ³
Titer by TCID₅₀ Assay^{4,5} in Vero cells¹ by CPE	Report results	1.6 × 10 ⁵ TCID ₅₀ per mL
Amplification of HPeV-3 Sequence by RT-PCR	~ 940 base pair amplicon	~ 940 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 37°C and 26°C, aerobic 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

¹Vero: ATCC® CCL-81™

²Grown in Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1.5 g/L of sodium bicarbonate (ATCC® 30-2003) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 10 days at 37°C with 5% CO₂

³Sequence information for PeV-3, US/MO-KC/2012/006 is not available in the NCBI database; nucleotide sequence obtained for NR-51186 lot 70012061 is ≥ 99% identical to numerous human parechovirus type 3 strains.

⁴The 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.

⁵12 days at 37°C and 5% CO₂

⁶Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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