

**Human Parainfluenza Virus Type 1, HPIV1/FRA/27344044/2007**

**Catalog No. NR-48681**

**Product Description:**

Human parainfluenza virus type 1 (HPIV1), HPIV1/FRA/27344044/2007 was isolated from the nasal cavity of a human in Caen, France on August 23, 2007. NR-48681 lot 70060724 was produced by infecting *Macaca mulatta* kidney epithelial cells (LLC-MK2 Derivative; ATCC® CCL-7.1™) with seed material and incubating in Dulbecco's Modified Eagle's Medium (ATCC® 30-2002™) supplemented with 4 µg per mL trypsin (Gibco® 27250-018) for 9 days at 37°C with 5% CO<sub>2</sub>.

**Passage History:**

LLC-MK2(1)/LLC-MK2(3) (Prior to deposit at BEI Resources/BEI Resources); LLC-MK2 = *Macaca mulatta* Derivative

**Lot: 70060724**

**Manufacturing Date: 25MAY2023**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in LLC-MK2 Cells</b>	Cell rounding and detachment	Cell rounding and detachment
<b>Sequencing of Species-Specific Region</b> (~ 890 nucleotides)	≥ 98% identity with HPIV1, HPIV1/FRA/27344044/2007 (GenBank: KF687312)	99.7% identity with HPIV1, HPIV1/FRA/27344044/2007 (GenBank: KF687312)
<b>Titer by TCID<sub>50</sub> Assay in LLC-MK2 Cells by Fluorescent Antibody Test<sup>1,2</sup></b> (8 days at 37°C with 5% CO <sub>2</sub> )	Report results	2.8 × 10 <sup>6</sup> TCID <sub>50</sub> /mL
<b>Amplification of HPIV1 Sequence by RT-PCR</b>	~ 980 base pair amplicon	~ 980 base pair amplicon
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>3</sup> 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
<b>Mycoplasma Contamination</b> 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

<sup>1</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> 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% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation.

<sup>2</sup>Test performed using anti-parainfluenza 1 antibody (Millipore MAB834-1).

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

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Technical Manager or designee, ATCC Federal Solutions

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