

**Human Parainfluenza Virus Type 1, HPIV1/FRA/29221106/2009**

**Catalog No. NR-48680**

**Product Description:**

Human parainfluenza virus type 1 (HPIV1), HPIV1/FRA/29221106/2009 was isolated from a human in Caen, France on May 25, 2009. NR-48680 lot 70032747 was produced by infecting *Macaca mulatta* kidney epithelial cells (LLC-MK2; ATCC® CCL-7.1™) and incubating in Dulbecco's Modified Eagle's Medium (ATCC 30-2002™) supplemented with 4 µg per mL trypsin (Gibco® 27250-018) for 7 days at 37°C with 5% CO<sub>2</sub>.

**Passage History:**

L(1)/L(5) (Prior to deposit at BEI Resources/BEI Resources); L = LLC-MK2 cells

**Lot: 70032747**

**Manufacturing Date: 11FEB2020**

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> (~ 900 nucleotides)	≥ 98% identity with HPIV1, HPIV1/FRA/29221106/2009 (GenBank: KF687313.1)	100% identity with HPIV1, HPIV1/FRA/29221106/2009 (GenBank: KF687313.1)
<b>Titer by TCID<sub>50</sub> Assay in LLC-MK2 Cells by Cytopathic Effect<sup>1</sup></b> (9 days at 37°C with 5% CO <sub>2</sub> )	Report results	8.9 × 10 <sup>6</sup> TCID <sub>50</sub> per mL
<b>Amplification of HPIV1 Sequence by RT-PCR</b>	~ 970 base pair amplicon	~ 970 base pair amplicon
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>2</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>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Heather Couch/

Heather Couch

14 JUL 2020

Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

