

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

**Catalog No. NR-48680**

**Product Description:** Cell lysate and supernatant from *Macaca mulatta* kidney epithelial cells<sup>1</sup> infected with human parainfluenza virus 1, HPIV1/FRA/29221106/2009

**Lot<sup>2</sup>: 62819340**

**Manufacturing Date: 09MAR2015**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in LLC-MK2 Cells<sup>1</sup></b>	Cell rounding, detachment, vesicle formation, and granularity	Cell rounding, detachment, vesicle formation, and granularity
<b>Sequencing of Species-Specific Region (859 nucleotides)</b>	Consistent with HPIV1/FRA/29221106/2009	100% identity with HPIV1/FRA/29221106/2009 (GenBank: KF687313)
<b>Titer by TCID<sub>50</sub> Assay<sup>3,4</sup> in LLC-MK2 Cells<sup>1</sup></b>	Report results	8.9 × 10 <sup>6</sup> TCID <sub>50</sub> per mL
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth, <sup>5</sup> 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 <sub>2</sub>	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 Test Article nucleic acid	None detected None detected	None detected None detected

<sup>1</sup>LLC-MK2 Derivative cells (ATCC® CCL-7.1™)

<sup>2</sup>Grown in Dulbecco's Modified Eagle's Medium (ATCC® 30-2002™) supplemented with 4 µg per mL trypsin (Gibco® 27250-018) for 6 days at 37°C and 5% CO<sub>2</sub>

<sup>3</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>4</sup>6 days at 37°C and 5% CO<sub>2</sub>

<sup>5</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

**Date:** 04 JUN 2015

**Signature:**



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