b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-48680

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

Catalog No. NR-48680

Product Description:

Human parainfluenza virus 1 (HPIV1), HPIV1/FRA/29221106/2009, was isolated from the nasal cavity of a human in Caen, France, on May 25, 2009. NR-48680 was produced by infecting *Macaca mulatta* kidney epithelial cells (LLC-MK2 derivative; ATCC® CCL-7.1™) with BEI Resources seed lot 62819339 and incubating in Dulbecco's Modified Eagle's Medium (ATCC® 30-2002™) supplemented with 4 ug/mL trypsin for 6 days at 37°C with 5% CO_2 to produce this lot.

Passage History:

L(1)/L5) (Prior to deposit at BEI Resources/BEI Resources); L = LLC-MK2 derivative cells

Lot: 70071381 **Manufacturing Date: 24SEP2024**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in LLC-MK2 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 890 nucleotides)	≥ 98% identity with HPIV1, HPIV1/FRA/29221106/2009 (GenBank: KF687313.1)	100% identity with HPIV1, HPIV1/FRA/29221106/2009 (GenBank: KF687313.1)
Titer by $TCID_{50}$ Assay in LLC-MK2 Cells by Cytopathic Effect[1] (7 days at 37°C with 5% CO_2)	Report results	8.9×10^6 $TCID_{50}$/mL
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic[2]	No growth	No growth
Trypticase Soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected

[1]The Tissue Culture Infectious Dose 50% ($TCID_{50}$) endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ 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_{50}) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the $TCID_{50}$ provides a measure of the titer (or infectivity) of a virus preparation.

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

/Sonia Bjorum Brower/
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Technical 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.

Support Provided by NIAID

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