

**Human Metapneumovirus TN/91-320**

**Catalog No. NR-22234**

**Product Description:** Cell lysate and supernatant from *Macaca mulatta* kidney epithelial cells<sup>1</sup> infected with human metapneumovirus (HMPV), TN/91-320

**Passage History:** L8/L6 (Vanderbilt/BEI Resources; L# = Number of passages in LLC-MK2 cells)

**Lot<sup>2</sup>: 62500402**

**Manufacturing Date: 30MAY2014**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in LLC-MK2 Derivative Cells <sup>1</sup>	Report results	Rounding, sloughing, and syncytia formation
Sequencing of Species-Specific Region <sup>3</sup> (G and L genes; 1223 nucleotides)	Consistent with HMPV TN/91-320	99% identity with HMPV TN/91-320 (GenBank: KC403972)
Titer by TCID <sub>50</sub> Assay <sup>4,5</sup> in LLC-MK2 Derivative Cells <sup>1</sup> With Direct Fluorescence Assay (DFA) Readout <sup>6</sup>	Report results	8.9 × 10 <sup>4</sup> TCID <sub>50</sub> per mL
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>7</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<sup>®</sup> CCL-7.1™)

<sup>2</sup> Grown in Opti-MEM<sup>®</sup> Minimal Essential Medium (Life Technologies 31985) supplemented with 2 mM L-glutamine (Life Technologies 25030), 100 µg per mL CaCl<sub>2</sub>, and 5 µg per mL trypsin (ATCC<sup>®</sup> 30-2101) for 7 days at 37°C and 5% CO<sub>2</sub>

<sup>3</sup> The limited nucleotide sequencing of NR-22234 performed at BEI Resources is not sufficient to confirm exact strain identity owing to the high degree of sequence conservation within HMPV lineages.

<sup>4</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>5</sup> 10 days at 37°C and 5% CO<sub>2</sub>

<sup>6</sup> Using Light Diagnostics™ Human Metapneumovirus DFA Reagent (Millipore 3124)

<sup>7</sup> Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

**Date:** 28 OCT 2014

**Signature:** 

**Title:** Technical Manager, BEI Authentication or designee

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