

**Human Metapneumovirus, TN/83-1211**

**Catalog No. NR-22227**

**Product Description:** Cell lysate and supernatant from *Macaca mulatta* kidney epithelial cells<sup>1</sup> infected with human metapneumovirus (HMPV), TN/83-1211

**Passage History:** L7/L3 (Vanderbilt/BEI Resources; L# = Number of passages in LLC-MK2 cells)

**Lot<sup>2</sup>: 355**

**Manufacturing Date: 13FEB2017**

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; 1221 nucleotides)	Consistent with HMPV, TN/83-1211	99% identity with HMPV, TN/83-1211 (GenBank: KC562244.1)
Titer by TCID <sub>50</sub> Assay <sup>4,5</sup> in LLC-MK2 Derivative Cells <sup>1</sup> With DFA Readout <sup>6</sup>	Report results	2.8 × 10 <sup>6</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® CCL-7.1™)

<sup>2</sup>Grown in Opti-MEM® Minimal Essential Medium (Life Technologies 31985) supplemented with 2 mM L-glutamine (ATCC® 30-2214), 100 µg per mL CaCl<sub>2</sub> (Fisher BioReagents™ BP9742), and 5 µg per mL trypsin (ATCC® 30-2101) for 6 days at 37°C and 5% CO<sub>2</sub>

<sup>3</sup>The limited nucleotide sequencing of NR-22227 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>7 days at 37°C and 5% CO<sub>2</sub>

<sup>6</sup>Using Light Diagnostics™ Human Metapneumovirus DFA Reagent (Millipore 5091)

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

**Date:** 19 JUN 2017

**Signature:** 

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