

Human Metapneumovirus TN/96-213

Catalog No. NR-22243

Product Description: Cell lysate and supernatant from *Macaca mulatta* kidney epithelial cells¹ infected with human metapneumovirus (HMPV), TN/96-213

Passage History: L3/L4 (Vanderbilt/BEI Resources; L# = Number of passages in LLC-MK2 cells)

Lot²: 62988843

Manufacturing Date: 06OCT2014

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in LLC-MK2 Derivative Cells ¹	Report results	Rounding and sloughing
Sequencing of Species-Specific Region ³ (G gene; 803 nucleotides)	Consistent with HMPV TN/96-213	99% identity with HMPV TN/96-213 (GenBank: KC562229)
Titer by TCID ₅₀ Assay ^{4,5} in LLC-MK2 Derivative Cells ¹ With Direct Fluorescence Assay (DFA) Readout ⁶	Report results	1.6 × 10 ⁵ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth ⁷ , 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 ₂	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
Mycoplasma Contamination 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

¹LLC-MK2 Derivative cells (ATCC® CCL-7.1™)

²Grown in Opti-MEM® Minimal Essential Medium (Life Technologies 31985) supplemented with 2 mM L-glutamine (Life Technologies 25030), 100 µg per mL CaCl₂, and 5 µg per mL trypsin (ATCC® 30-2101) for 6 days at 37°C and 5% CO₂

³The limited nucleotide sequencing of NR-22243 performed at BEI Resources is not sufficient to confirm exact strain identity owing to the high degree of sequence conservation within HMPV lineages.

⁴The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ 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% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

⁵12 days at 37°C and 5% CO₂

⁶Using Human Metapneumovirus DFA Reagent (Light Diagnostics™ 5091)

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

Date: 26 MAR 2015

Signature: 

Title: Technical Manager, BEI Authentication or designee

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