

Human Metapneumovirus, TN/91-316

Catalog No. NR-22232

Product Description: Human metapneumovirus (HMPV), TN/91-316 was isolated in 1991 from a human specimen collected in Tennessee, USA. Each vial contains cell lysate and supernatant from *Macaca mulatta* kidney epithelial cells¹ infected with HMPV, TN/91-316.

Passage History: L8/L6 (Prior to BEI Resources/BEI Resources; L = LLC-MK2 cells)

Lot²: 70005955

Manufacturing Date: 29JUN2017

| TEST | SPECIFICATIONS | RESULTS |
|--|---|---|
| Identification by Infectivity in LLC-MK2 Derivative Cells ¹ | Report results | Rounding and dissociation from the monolayer |
| Sequencing of Species-Specific Region ³ (~ 890 nucleotides) | Consistent with HMPV, TN/91-316 | 100% identity with HMPV, TN/91-316 (GenBank: KC403971.1) |
| 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 ⁷ 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 (ATCC® 30-2214), 100 µg per mL CaCl₂ (Fisher BioReagents™ BP9742), and 5 µg per mL trypsin (ATCC® 30-2101) for 7 days at 37°C and 5% CO₂

³The limited nucleotide sequencing of NR-22232 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.

⁵13 days at 37°C and 5% CO₂

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

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

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18 JUN 2018

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