

Human Metapneumovirus, TN/91-320

Catalog No. NR-22234

Product Description:

Human metapneumovirus (HMPV), TN/91-320 was isolated from a human specimen collected in Tennessee, USA, in 1991. NR-22234 lot 70044755 was produced by infecting *Macaca mulatta* kidney epithelial cells (LLC-MK2; ATCC® CCL-7.1™) with BEI Resources seed lot 62500401 and incubating in Opti-MEM® Minimal Essential Medium (Gibco; 31985-070) supplemented with 2 mM L-glutamine, 100 µg per mL CaCl₂, and 5 µg per mL trypsin for 7 days at 37°C with 5% CO₂.

Passage History:

L(8)/L(7) (Vanderbilt University Medical Center/BEI Resources); L = LLC-MK2

Lot: 70044755

Manufacturing Date: 02AUG2021

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TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in LLC-MK2 Derivative Cells	Syncytia formation and refractile rounding	Syncytia formation and refractile rounding
Sequencing of Species-Specific Region (~1220 nucleotides)	≥ 98% identity with HMPV, TN/91-320 (GenBank: KC403972)	99.5% identity with HMPV, TN/91-320 (GenBank: KC403972)
Titer by TCID₅₀ Assay in LLC-MK2 Derivative Cells by Cytopathic Effect With Direct Fluorescence Assay (DFA) Readout^{1,2} (8 days at 37°C and 5% CO₂)	Report results	1.6 × 10 ⁶ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ³ 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, aerobic	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 extracted Test Article nucleic acid	None detected None detected	None detected None detected

¹The 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.

²Using Light Diagnostics™ Human Metapneumovirus DFA Reagent (Millipore 5091)

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

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