

Human Metapneumovirus, TN/83-1211

Catalog No. NR-22227

Product Description:

Human metapneumovirus (HMPV), TN/83-1211 was isolated in 1983 from a human specimen collected in Tennessee, USA. NR-22227 lot 70063138 was produced by infecting *Macaca mulatta* kidney epithelial cells (LLC-MK2; ATCC® CCL-7.1™) in Opti-MEM® Minimal Essential Medium (Gibco® 31985) supplemented with 2 mM L-glutamine (ATCC® 30-2214™), 100 µg per mL CaCl₂ and 5 µg per mL trypsin (ATCC® 30-2101™) for 5 days at 37°C and 5% CO₂.

Passage History:

L(7)/L(3) (Vanderbilt University/BEI Resources); L = LLC-MK2 cells

Lot: 70063138

Manufacturing Date: 30AUG2023

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in LLC-MK2 Cells	Report results	Cell rounding, sloughing and syncytia formation
Sequencing of Species-Specific Region (~ 780 nucleotides)	≥ 98% identity with HMPV, TN/83-1211 complete genome (GenBank: KC562244.1)	99.7% identity with HMPV, TN/83-1211 complete genome (GenBank: KC562244.1)
Titer by TCID₅₀ Assay in LLC-MK2 Cells by Cytopathic Effect and PCR¹ (9 days at 37°C with 5% CO ₂)	Report results	2.8 × 10 ⁵ TCID ₅₀ /mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ² 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.

²Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Sonia Bjorum Brower/

Sonia Bjorum Brower

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