

**Human Coronavirus, NL63**

**Catalog No. NR-470**

**Product Description:**

Human coronavirus (HCoV), NL63 was isolated in 2003 from nasopharyngeal aspirate of human infant with acute respiratory disease in Amsterdam. NR-470 lot 70047796 was produced by infecting derivative *Macaca mulatta* kidney epithelial (LLC-MK2; ATCC® CCL-7.1™) with seed material (BEI Resources lot 3946804) and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 7 days at 34°C with 5% CO<sub>2</sub>.

**Passage History:**

MK(8)/MK(3) (Prior to deposit at BEI Resources/BEI Resources); MK = LLC-MK2 cells

**Lot: 70047796**

**Manufacturing Date: 12OCT2021**

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TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in LLC-MK2 Cells</b>	Cell rounding and detachment	Cell rounding and detachment
<b>Sequencing of Species-Specific Region</b> (~ 940 nucleotides)	≥ 98% identity with HCoV, NL63 (GenBank: AY567487.2)	100% identity with HCoV, NL63 (GenBank: AY567487.2)
<b>Titer by TCID<sub>50</sub> Assay in LLC-MK2 Cells by Cytopathic Effect<sup>1</sup></b> (8 days at 34°C and 5% CO <sub>2</sub> )	Report results	1.6 × 10 <sup>5</sup> TCID <sub>50</sub> per mL
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>2</sup> 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
<b>Mycoplasma Contamination</b> 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

<sup>1</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>2</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Heather Couch/

**Heather Couch**

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Program Manager or designee, ATCC Federal Solutions

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