

# Mammalian Rubulavirus 5, 21005-2WR (Tissue Culture Adapted) (formerly Parainfluenza Virus 5)

## Catalog No. NR-42515

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## Product Description:

Mammalian rubulavirus 5 was first isolated from monkey kidney cell cultures by Dr. Robert Hull in 1954.

## Passage History:

RhMK(10)LLC-MK2(6)GMK(1)CE(12)/LLC-MK2(5) (Prior to deposit at BEI Resources/BEI Resources); RhMK= Rhesus Monkey kidney cells; GMK = African green monkey kidney cells; CE = Chicken embryo; LLC-MK2 = *Macaca mulatta* (Rhesus Monkey) kidney cells<sup>1</sup>

Lot: 70026761<sup>1-3</sup>

Manufacturing Date: 12JUL2019

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in LLC-MK2 cells	Cell rounding and sloughing	Cell rounding and sloughing
Sequencing of Species-Specific Region (~ 840 nucleotides)	Consistent with mammalian rubulavirus	97.6% identity with mammalian rubulavirus 5 (GenBank: KY685075.1) <sup>4</sup>
Titer by TCID <sub>50</sub> Assay in LLC-MK2 Cells by Hemagglutination Assay <sup>1,5,6,7</sup>	Report results	1.6 × 10 <sup>6</sup> TCID <sub>50</sub> per mL
Amplification of Mammalian Rubulavirus 5 Sequence by RT-PCR	~ 1100 base pair amplicon	~ 1100 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>8</sup> Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Blood agar, 37°C, aerobic Blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO <sub>2</sub>	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 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

<sup>1</sup>*Macaca mulatta* kidney epithelial cells (LLC-MK2, ATCC® CCL-7.1™)

<sup>2</sup>Derived from NIAID Catalog No. V-322-011-000

<sup>3</sup>Lot 70026761 of NR-42515 was produced by infecting LLC-MK2 cells with BEI Resources NRS-42515 lot 61389532 and incubating in Dulbecco's Modified Eagle's Minimum Essential Medium (ATCC® 30-2002) supplemented with 4 µg/mL trypsin and 10% fetal bovine serum (ATCC® 30-2020) for 4 days at 37°C with 5% CO<sub>2</sub>.

<sup>4</sup>Sequence information for mammalian rubulavirus 5, 21005-2WR is not available in the NCBI database; nucleotide sequence obtained for NR-42515 lot 70026761 has 100% identity to the sequence of the previous lot of NR-42515 and 97.6% identity to mammalian rubulavirus 5 (GenBank: KY685075.1). Although the identity is less than 98%, the sequence obtained matched only parainfluenza virus 5, simian virus 5, and mammalian rubulavirus 5 when BLAST was performed.

<sup>5</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>6</sup>Assay plates were incubated 7 days at 37°C and 5% CO<sub>2</sub>.

<sup>7</sup>HA was performed with 0.5% turkey red blood cells.

<sup>8</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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