

**Mumps Virus, MuV/Iowa.US/2006, Plaque Purified**

**Catalog No. NR-51281**

**Product Description:**

Mumps virus (MuV), MuV/Iowa.US/2006 was isolated from an oral swab of a human subject in Iowa, USA, in 2006. It was plaque purified three times prior to deposit at BEI Resources. NR-51281 lot 70059197 was produced by infecting *Chlorocebus* (formerly *Cercopithecus*) *aethiops* kidney epithelial cells clone E6 (Vero E6; BEI Resources) with MuV, MuV/Iowa.US/2006 and incubating in Dulbecco's Modified Eagle's Medium (ATCC® 30-2002™) supplemented with 5% fetal bovine serum (ATCC® 30-2020™) for 7 days at 37°C with 5% CO<sub>2</sub>.

**Passage History:**

XV(7)/V(2); VE6(2) (Prior to deposit at BEI Resources/BEI Resources); X = Unknown; V = Vero cells; VE6 = Vero E6

**Lot: 70059197**

**Manufacturing Date: 17MAR2023**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in Vero E6 Cells</b>	Cell fusion and detachment	Cell fusion and detachment
<b>Sequencing of Species-Specific Region</b> (~ 900 nucleotides)	≥ 98% identity with MuV, MuV/Iowa.US/2006 (GenBank: JN012242.1)	99.9% identity with MuV, MuV/Iowa.US/2006 (GenBank: JN012242.1)
<b>Titer by TCID<sub>50</sub> Assay in Vero E6 Cells by Cytopathic Effect<sup>1</sup></b> (8 days at 37°C with 5% CO <sub>2</sub> )	Report results	1.6 × 10 <sup>8</sup> TCID <sub>50</sub> /mL
<b>Titer by Plaque Assay in Vero E6 cells</b> (6 days at 37°C with 5% CO <sub>2</sub> )	Report results	5.8 × 10 <sup>7</sup> PFU per mL
<b>Amplification of MuV Sequence by RT-PCR</b>	~ 1000 base pair amplicon	~ 1000 base pair amplicon
<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.

/Sonia Bjorum Brower/

Sonia Bjorum Brower

28 AUG 2023

Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

