

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 was produced by infecting *Chlorocebus aethiops* kidney epithelial cells clone E6 (Vero E6; ATCC® CRL-1586™) with BEI Resources seed lot 70016127 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% CO₂.

Passage History:

XV(7)/V(2)VE6(3) (Prior to deposit at BEI Resources/BEI Resources); XV = Unknown type of Vero cells; V = Vero cells; VE6 = Vero E6 cells

Lot: 70082187

Manufacturing Date: 24APR2026

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero E6 Cells	Cell fusion and detachment	Cell fusion and detachment
Sequencing of Species-Specific Region (~ 950 nucleotides)	≥ 98% sequence identity with MuV, MuV/Iowa.US/2006 (GenBank: JN012242.1)	99.9% sequence identity with MuV, MuV/Iowa.US/2006 (GenBank: JN012242.1)
Titer by TCID ₅₀ Assay in Vero E6 Cells by Cytopathic Effect ¹ (8 days at 37°C with 5% CO ₂)	Report results	5.0 × 10 ⁷ TCID ₅₀ /mL
Amplification of MuV Sequence by RT-PCR	~ 1000 base pair amplicon	~ 1000 base pair amplicon
Sterility test (Bact/ALERT 3D) iAST bottle (aerobic) at 32.5°C, 14-day incubation iNST bottle (anaerobic) at 32.5°C, 14-day incubation	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.

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16 JUL 2026

Technical Manager or designee, ATCC Federal Solutions

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