

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.

Passage History: XV7/V2 (Prior to deposit at BEI Resources/BEI Resources); X = Unknown; V = Vero cells¹

Lot²: 70016128

Manufacturing Date: 06AUG2018

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero cells	Cell fusion and detachment	Cell fusion and detachment
Sequencing of Species-Specific Region (~ 870 nucleotides)	≥ 98% identity with MuV, MuV/Iowa.US/2006 (GenBank: JN012242.1)	100% identity with MuV, MuV/Iowa.US/2006 (GenBank: JN012242.1)
Titer by TCID₅₀ Assay^{3,4} in Vero cells¹ by Cytopathic Effect	Report results	8.9 × 10 ⁶ TCID ₅₀ per mL
Titer by Plaque Assay⁵ in Vero cells¹	Report results	5.7 × 10 ⁶ PFU per mL
Amplification of MuV Sequence by RT-PCR	~ 1000 base pair amplicon	~ 1000 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 37°C and 26°C, aerobic 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 ₂	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

¹*Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CRL-1586™)

²Grown in Dulbecco's Modified Eagle's Medium containing 4 mM L-glutamine, 4500 mg per L glucose, 1 mM sodium pyruvate, and 1500 mg per L sodium bicarbonate (ATCC® 30-2002) supplemented with 5% fetal bovine serum (ATCC® 30-2020) for 5 days at 37°C with 5% CO₂

³The 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.

⁴Assay plates were incubated 7 days at 37°C and 5% CO₂

⁵Plaque Forming Unit (PFU) count was calculated after 6 days at 37°C and 5% CO₂

⁶Atlas, 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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