

Measles Virus, MVs/Utah.USA/6.17 [H1]

Catalog No. NR-52253

Product Description:

Measles virus (MeV), MVs/Utah.USA/6.17 [H1] was collected from a nasopharyngeal swab in February 2017 in Utah, USA, and isolated on May 8, 2018. NR-52253 lot 70033303 was produced by infecting *Cercopithecus aethiops* kidney epithelial cells with human signaling lymphocytic activation molecule (Vero E6-hSLAM) with the deposited material and incubating in Dulbecco's Modified Eagle's Medium (ATCC® 30-2002™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 2 days at 37°C with 5% CO₂.

Passage History:

VE6-hSLAM(2)/VE6-hSLAM(2) (Centers for Disease Control and Prevention/BEI Resources); VE6-hSLAM = *Cercopithecus aethiops* kidney epithelial cells with human signaling lymphocytic activation molecule

Lot: 70033303

Manufacturing Date: 05FEB2021

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero E6-hSLAM Cells	Syncytia formation	Syncytia formation
Next-Generation Sequencing (NGS) Using Illumina® iSeq™ 100 Platform	≥ 98% identity with MeV, MVs/Utah.USA/6.17/[H1] (GenBank: MN602401.1)	100% identity with MeV, MVs/Utah.USA/6.17/[H1] (GenBank: MN602401.1)
Amplification of MeV Sequence by RT-PCR	~ 630 base pair amplicon	~ 630 base pair amplicon
Sequencing of Species-Specific Region (450 nucleotides)	≥ 98% identity with MeV, MVs/Utah.USA/6.17/[H1] (GenBank: MN602401.1)	100% identity with MeV, MVs/Utah.USA/6.17/[H1] (GenBank: MN602401.1)
Titer by TCID ₅₀ Assay in Vero E6-hSLAM Cells by Cytopathic Effect ¹ (5 days at 37°C and 5% CO ₂)	Report results	1.6 × 10 ⁵ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ² 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
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.

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

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