Certificate of Analysis for NR-60831

Measles Virus, MVs/Tennessee.USA/40.24, Genotype B3

Catalog No. NR-60831

This reagent is the property of the U.S. Government.

Product Description:

Measles virus (MeV), MVs/Tennessee.USA/40.24, genotype B3 (B3) was collected by nasopharyngeal swab on October 4, 2024, and isolated on April 21, 2025, in Tennessee, USA. NR-60831 was produced by infecting *Chlorocebus aethiops* kidney epithelial cells expressing human signaling lymphocytic activation molecule (Vero-hSLAM; BEI Resources NR-55500™) 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 3 days at 37°C with 5% CO_2 to produce this lot.

Passage History:

Vh(1)/Vh(2) (Prior to deposit at BEI Resources/BEI Resources); Vh = Vero-hSLAM

Lot: 70078295 Manufacturing Date: 25SEP2025

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero-hSLAM Cells	Syncytia formation	Syncytia formation
Sequencing of Species-Specific Region (450 nucleotides)	≥ 98% sequence identity with MVs/Tennessee.USA/40.24, genotype B3 (GenBank: PV553026.1)	100% sequence identity with MVs/Tennessee.USA/40.24, genotype B3 (GenBank: PV553026.1)
Next-Generation Sequencing (NGS) of Complete Genome Using Illumina® MiSeq™ Platform	≥ 98% sequence identity with measles virus genotype B3 strain MVs/California.USA/10.25[B3], complete genome (GenBank: PV686488)	99.9% sequence identity with measles virus genotype B3 strain MVs/California.USA/10.25[B3], complete genome (GenBank: PV686488)[1]
Titer by $TCID_{50}$ Assay in Vero-hSLAM Cells by Cytopathic Effect[2] (8 days at 37°C with 5% CO_2)	Report results	1.6×10^5 $TCID_{50}$/mL
Sterility test (BacT/ALERT 3D)		
iAST bottle (aerobic) at 32.5°C, 14-day incubation	No growth	No growth
iNST bottle (anaerobic) at 32.5°C, 14-day incubation	No growth	No growth
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic[3]	No growth	No growth
Trypticase Soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected

[1]Sequence information for measles virus, MVs/Tennessee.USA/40.24 is not available in the NCBI database; nucleotide sequence obtained for NR-60831 lot 70078295 is 99.9% identical to measles virus genotype B3 strain MVs/California.USA/10.25[B3], complete genome (GenBank: PV686488), another contemporary genotype B3 MeV strain.

[2]The Tissue Culture Infectious Dose 50% ($TCID_{50}$) endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ 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_{50}) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the $TCID_{50}$ provides a measure of the titer (or infectivity) of a virus preparation.

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

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/Sonia Bjorum Brower/
Sonia Bjorum Brower 10 DEC 2025
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.

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