

Genomic RNA from Measles Virus, MVs/Tennessee.USA/40.24, Genotype B3

Catalog No. NR-61141

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Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Chlorocebus aethiops* kidney epithelial cells expressing human signaling lymphocytic activation molecule (Vero-hSLAM; BEI Resources NR-55500) infected with measles virus (MeV), MVs/Tennessee.USA/40.24, genotype B3 (B3) (BEI Resources NR-60831 lot 70078295) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70079274

Manufacturing Date: 10NOV2025

TEST	SPECIFICATIONS	RESULTS
Next-Generation Sequencing (NGS) of Complete Genome Using Illumina® MiSeq™ Platform¹	≥ 98% identity with MVs/California.USA/10.25[B3], complete genome (GenBank: PV686488)	99.9% identity with MVs/California.USA/10.25[B3], complete genome (GenBank: PV686488)
Functional Activity by RT-PCR Amplification² HA gene	~ 1000 base pair amplicon	~ 1000 base pair amplicon (Figure 1)
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System (Post vial; 9 replicates)	Report results	7.8 × 10 ⁸ NDU per mL ³
Virus Inactivation 10% of total yield inoculated on Vero-hSLAM cells and evaluated for cytopathic effect and by immunofluorescent staining after serial passage ⁴	No viable virus detected	No viable virus detected

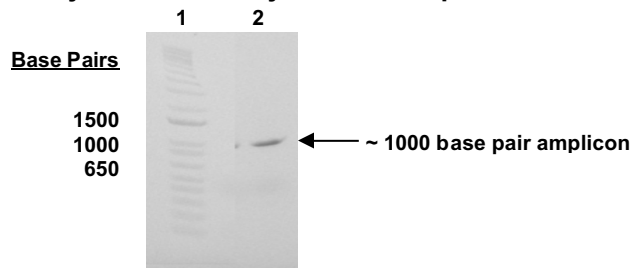
¹Testing completed pre-extraction

²Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 2 µL of NR-61141 in a 25 µL reaction

³NDU; NAAT-detectable units

⁴Use of the QIAamp® Viral RNA Mini Kit (Qiagen® 52906) has been demonstrated to consistently inactivate 100% of measles viruses as shown by the absence of cytopathic effect (CPE) and immunofluorescent staining after plating the entire extract on virus-susceptible cells for two passages.

Figure 1: Functional Activity of NR-61141 by RT-PCR Amplification of HA Gene



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 1 µL of NR-61141

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Technical Manager or designee, ATCC Federal Solutions

22 DEC 2025

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