

Genomic RNA from Measles Virus, Moraten Vaccine Strain

Catalog No. NR-61144

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

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), Moraten vaccine strain (BEI Resources NR-60834 lot 70079293) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70080142

Manufacturing Date: 17DEC2025

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 910 nucleotides)	≥ 98% identity with Measles virus strain Edmonston (Moraten vaccine), complete genome (GenBank: AF266287.1)	100% identity with Measles virus strain Edmonston (Moraten vaccine), complete genome (GenBank: AF266287.1)
Functional Activity by RT-PCR Amplification¹ HA gene	~ 1020 base pair amplicon	~ 1020 base pair amplicon (Figure 1)
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)²	Report results	48 ng per 100 µL (0.48 µg/mL)
Estimated Amount per Vial²	Report results	48 ng
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System (Post vial; 18 replicates)	Report results	1.5×10^8 NDU per mL ³
Virus Inactivation 10% of total yield inoculated on Vero-hSLAM cells and evaluated for cytopathic effect ⁴	No viable virus detected	No viable virus detected

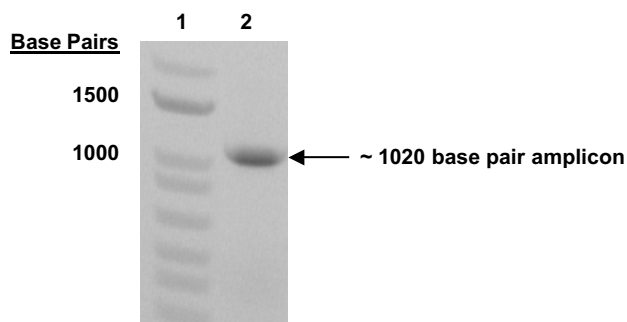
¹Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-61144 in a 50 µL reaction

²Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

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-61144 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-61144

/Sonia Bjorum Brower/

Sonia Bjorum Brower

19 FEB 2026

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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

