Certificate of Analysis for NR-44104

Genomic RNA from Measles Virus, Edmonston

Catalog No. NR-44104

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Derived from NIAID Catalog No. V-328-001-020

Product Description:

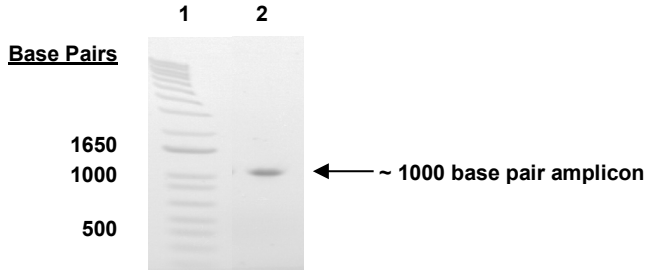
Genomic RNA was isolated from a preparation of cell lysate and supernatant from fetal human lung fibroblast cells (MRC-5, ATCC® CCL-171™) infected with measles virus (MV), Edmonston (BEI Resources lot 70039701) using QIAamp® Viral RNA Mini Kit (Qiagen® 52904). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70049763 **Manufacturing Date: 31JAN2022**

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 920 nucleotides)	≥ 98% identity with measles virus, Edmonston (GenBank: K01711.1)	100% identity with measles virus, Edmonston (GenBank: K01711.1)
Functional Activity by RT-PCR Amplification[1] H gene	~ 1000 base pair amplicon	~ 1000 base pair amplicon (Figure 1)
Estimated Concentration (post-dilution) by RiboGreen® Measurement (Viral, Cellular and Carrier)[2]	Report results	0.8 ng per 100 µL
Estimated Amount per Vial[2]	Report Results	0.8 ng
Virus Inactivation 10% of total yield inoculated on MRC-5 cells and evaluated for cytopathic effect and by IFA after serial passage[3,4]	No viable virus detected	No viable virus detected

[1]Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-44104 in a 50 µL reaction
[2]Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method
[3]IFA performed using anti-measles (Millipore MAB8906F) and FITC-labeled anti-mouse (Millipore 5008)
[4]Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of MV as shown by the absence of cytopathic effect (CPE) and IFA after plating the entire extract on virus-susceptible cells for two passages.

Figure 1: Functional Activity of NR-44104 by RT-PCR Amplification of H Gene



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 1 µL of NR-44104

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/Sonia Bjorum Brower/
Sonia Bjorum Brower 27 JUN 2022
Lead Technical Writer 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.

Support Provided by NIAID

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