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SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-53521

Genomic RNA from SARS-Related Coronavirus 2, Isolate hCoV-19/USA/New York-PV09197/2020 (Lineage B.1.3)

Catalog No. NR-53521

Product Description:

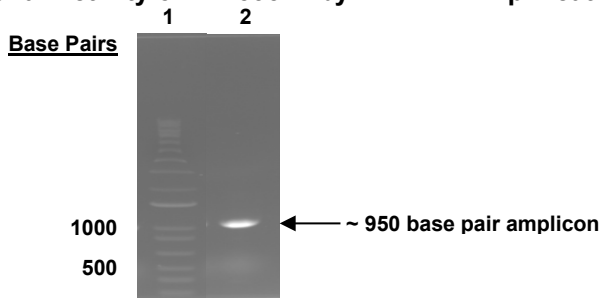
Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney cells (Vero E6; ATCC® CRL-1586™) infected with SARS-CoV-2, isolate hCoV-19/USA/New York-PV09197/2020 (BEI Resources lot 70036352) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70037090 **Manufacturing Date: 28OCT2020**

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 760 nucleotides)	≥ 98% identity with SARS-CoV-2, isolate hCoV-19/USA/NY-PV09197/2020 (GenBank: MT370988.1)	99.9% identity with SARS-CoV-2, isolate hCoV-19/USA/NY-PV09197/2020 (GenBank: MT370988.1)
Functional Activity by RT-PCR Amplification[1] ORF1ab	~ 950 base pair amplicon	~ 950 base pair amplicon (Figure 1)
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System (Post vial; 9 replicates)	Report results	6.6×10^7 genome copies per mL
Virus Inactivation 10% of total yield inoculated on Vero E6 cells and evaluated for cytopathic effect and by RT-PCR after serial passage[2]	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-53521 in a 50 µL reaction
[2]Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of SARS-CoV-2 as shown by the absence of cytopathic effect (CPE) and viral RNA expression by RT-PCR after plating the entire extract on virus-susceptible cells for two passages.

Figure 1: Functional Activity of NR-53521 by RT-PCR Amplification



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 1 µL of NR-53521

/Heather Couch/
Heather Couch 05 NOV 2021
Program 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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