

Genomic RNA from SARS-Related Coronavirus 2, Isolate hCoV-19/USA/New York-PV09158/2020 (Lineage B.1.3)

Catalog No. NR-53520

Product Description:

Genomic RNA was extracted from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney cells (Vero E6; ATCC® CRL-1586™) infected with severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), isolate hCoV-19/USA/New York-PV09158/2020 (BEI Resources lot 70036350) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70037089

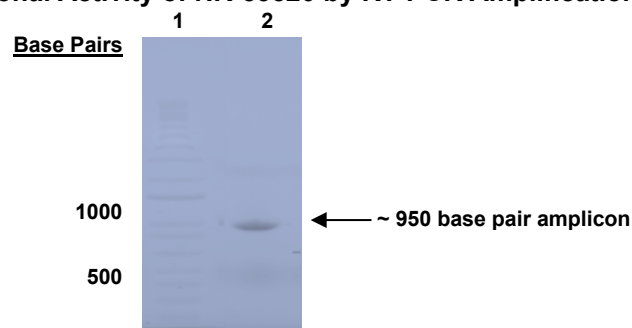
Manufacturing Date: 01JUL2020

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 860 nucleotides)	≥ 98% identity with SARS-CoV-2, isolate hCoV-19/USA/NY-PV09158/2020 (GenBank: MT371034.1)	100% identity with SARS-CoV-2, isolate hCoV-19/USA/NY-PV09158/2020 (GenBank: MT371034.1)
Functional Activity by RT-PCR Amplification¹ 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	1.16 × 10 ⁸ 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

¹Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-53520 in a 50 µL reaction

²Use 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-53520 by RT-PCR Amplification



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 1 µL of NR-53520

/Heather Couch/
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Program Manager or designee, ATCC Federal Solutions

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