

## **Certificate of Analysis for NR-52285**

### Genomic RNA from SARS-Related Coronavirus 2, Isolate USA-WA1/2020

#### Catalog No. NR-52285

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

#### **Product Description:**

Genomic RNA was extracted from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial (Vero E6, ATCC<sup>®</sup> CRL-1586<sup>™</sup>) cells infected with SARS-related coronavirus 2 (SARS-CoV-2), isolate USA-WA1/2020, using QIAamp<sup>®</sup> Viral RNA Mini Kit (Qiagen 52904). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70034085 Manufacturing Date: 17MAR2020

TEST	SPECIFICATIONS	RESULTS
Functional Activity by RT-PCR Amplification <sup>1</sup>	~ 950 base pair amplicon	~ 950 base pair amplicon (Figure 1)
Sequencing of Species-Specific Region (~ 880 nucleotides)	≥ 98% identity with SARS-CoV- 2, isolate USA-WA1/2020 (GenBank: MN985325.1)	100% identity with SARS-CoV-2, isolate USA-WA1/2020 (GenBank: MN985325.1)
(~ 880 nucleotides)	≥ 98% identity with SARS-CoV- 2, strain FDAARGOS_983 isolate USA-WA1/2020 (GenBank: MT246667.1)	100% identity with SARS-CoV-2, strain FDAARGOS_983 isolate USA-WA1/2020 (GenBank: MT246667.1)
Estimated Concentration (post-dilution) by RiboGreen® Measurement (Viral, Cellular and Carrier)²	Report results	47.5 ng per 100 μL (0.475 μg/mL)
Estimated Amount per Vial <sup>2</sup>	Report results	47.5 ng
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System (Post vial; 9 replicates)	Report results	4.67 × 10 <sup>7</sup> genome equivalents/mL
Virus Inactivation (14 Days, 2 Passages)  10% of total yield inoculated on Vero E6 cells and evaluated for cytopathic effect <sup>3</sup>		
Passage 1 Passage 2	No viable virus detected No viable virus detected	No viable virus detected No viable virus detected
Virus Inactivation (14 Days, 2 Passages)  100% of total yield inoculated on Vero E6 cells and evaluated for cytopathic effect <sup>3</sup>		
Passage 1 Passage 2	No viable virus detected No viable virus detected	No viable virus detected No viable virus detected

¹Amplified using iTag™ Universal SYBR Green One-step Kit (Bio-Rad 172-5151) with 5 μL of NR-52285 in a 50 μL reaction

BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898

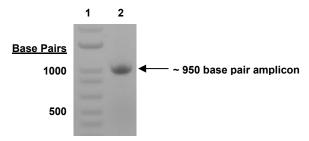
<sup>&</sup>lt;sup>2</sup>Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

<sup>&</sup>lt;sup>3</sup>Supernatant from both passages were tested for the presence of viral RNA by qPCR at the end of day 14 of Passage 2.



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Figure 1: Functional Activity of NR-52285 by RT-PCR Amplification



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder Lane 2: PCR product from 1 µL of NR-52285

/Heather Couch/ Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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Tel: 800-359-7370 Fax: 703-365-2898