

# Certificate of Analysis for NR-52286

### SARS-Related Coronavirus 2, Isolate USA-WA1/2020, Heat Inactivated

### Catalog No. NR-52286

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

### **Product Description:**

NR-52286 is a preparation of SARS-Related Coronavirus 2 (SARS-CoV-2), isolate USA-WA1/2020 that has been inactivated by heating to 65°C for 30 minutes, followed by 5-fold dilution prior to vialing.

The starting material (lot 70047442) was produced by infecting *Cercopithecus aethiops* kidney cells (Vero E6; ATCC<sup>®</sup> CRL-1586<sup>™</sup>) in Eagle's Minimum Essential Medium (ATCC<sup>®</sup> 30-2003<sup>™</sup>) supplemented with 2% fetal bovine serum (ATCC<sup>®</sup> 30-2020<sup>™</sup>) for 4 days at 37°C with 5% CO<sub>2</sub>. The titer of the source material was 7.9 × 10<sup>5</sup> TCID<sub>50</sub> per mL by TCID<sub>50</sub> assay in Vero E6 cells, determined by cytopathic effect in 8 days at 37°C with 5% CO<sub>2</sub>, and sterility of the preparation was confirmed.<sup>1</sup>

Lot: 70048020 Manufacturing Date: 15SEP2021

TEST	SPECIFICATIONS	RESULTS
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System² (26 replicates)	Report results	5.36 × 10 <sup>8</sup> genome equivalents per mL
Virus Inactivation 10% of total bulk heat-treated preparation inoculated on Vero E6 cells and evaluated for cytopathic effect and presence of viral RNA by qRT-PCR <sup>3</sup>	No viable virus detected	No viable virus detected

<sup>&</sup>lt;sup>1</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation.

## /Heather Couch/

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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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<sup>&</sup>lt;sup>2</sup>The genome copy number reported is obtained using Qiagen RNA extraction kit (Cat 52906).

<sup>3</sup>The inactivated virus preparation was plated on Vero E6 cells and incubated for 14 days at 37°C and 5% CO<sub>2</sub>; cell lysate and supernatant from these cultures were blind passaged on fresh monolayers of Vero E6 cells and again incubated for 14 days at 37°C and 5% CO<sub>2</sub>. Samples from both passages were also tested by qPCR at the end of day 14 of the passages.