

**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.

**Lot: 70033548**

**Manufacturing Date: 24FEB2020**

TEST	SPECIFICATIONS	RESULTS
<b>Pre-Inactivation Titer by TCID<sub>50</sub> Assay in Vero E6 Cells<sup>1</sup></b>	Report results	1.6 × 10 <sup>5</sup> TCID <sub>50</sub> per mL in 11 days at 37°C and 5% CO <sub>2</sub>
<b>Pre-Inactivation Sterility</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>2</sup> Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO <sub>2</sub>	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
<b>Pre-Inactivation Mycoplasma Contamination</b> Agar and broth culture (14-day incubation at 37°C) DNA Detection by PCR of Test Article nucleic acid	None detected None detected	None detected None detected
<b>Viral Genome Copy Number</b> <b>Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System<sup>3</sup></b> (Post vial; 6 replicates)	Report results	1.16 × 10 <sup>9</sup> genome equivalents per mL
<b>Virus Inactivation</b> 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>4</sup>	No viable virus detected	No viable virus detected

<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.

<sup>2</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

<sup>3</sup>The GE value reported is obtained using Qiagen RNA extraction kit (Cat 52904).

<sup>4</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>.

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