

**SARS-Related Coronavirus 2, Isolate hCoV-19/USA/GA-EHC-2811C/2021 (Lineage B.1.1.529; Omicron Variant), Gamma-Irradiated**

**Catalog No. NR-56496**

**Product Description:**

NR-56496 is a gamma-irradiated preparation of severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), isolate hCoV-19/USA/GA-EHC-2811C/2021. NR-56496 was gamma-irradiated ( $5 \times 10^6$  RADs) on dry ice, followed by sonication to clarify the supernatant prior to vialing.

The starting material (BEI Resources lot 70050025) was produced by infecting *Homo sapiens* lung adenocarcinoma epithelial cells (Calu-3) in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 3 days at 37°C with 5% CO<sub>2</sub>. Titer of spin clarified lot 70050025 was  $1.5 \times 10^6$  TCID<sub>50</sub> per mL by TCID<sub>50</sub> assay in Calu-3 cells, determined by cytopathic effect in 7 days at 37°C with 5% CO<sub>2</sub>, and sterility of the preparation was confirmed.

**Lot: 70050694**

**Manufacturing Date: 24FEB2022**

TEST	SPECIFICATIONS	RESULTS
<b>Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System<sup>1</sup></b>	Report results	$5.83 \times 10^9$ genome copies per mL <sup>2</sup>
<b>Virus Inactivation</b> 10% of total bulk gamma-irradiated preparation inoculated on Vero E6 cells and evaluated for cytopathic effect and expression of viral antigen by indirect immunofluorescence assay <sup>3,4</sup>	No viable virus detected	No viable virus detected

<sup>1</sup>The genome copy number reported is obtained using Qiagen RNA extraction kit (Cat 52906).

<sup>2</sup>The results obtained from nine replicates are reported.

<sup>3</sup>The gamma-irradiated 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>.

<sup>4</sup>Indirect immunofluorescence assay was performed at University of Texas Medical Branch, Galveston, Texas, USA.

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Program Manager or designee, ATCC Federal Solutions

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