SUPPORTING INFECTIOUS DISEASE RESEARCH

## SARS-Related Coronavirus 2, Isolate USA-WA1/2020, Gamma-Irradiated

### Catalog No. NR-52287

#### **Product Description:**

NR-52287 lot 70033322 consists of a crude preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero E6; ATCC<sup>®</sup> CRL-1586<sup>™</sup>) infected with severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), isolate USA-WA1/2020 (NRC-52281 lot 70033641) that was gamma-irradiated (5 × 10<sup>6</sup> RADs) on dry ice.

#### Lot: 70033322

### Manufacturing Date: 27FEB2020

TEST	SPECIFICATIONS	RESULTS
Pre-Inactivation Titer by TCID <sub>50</sub> Assay in Vero E6 cells <sup>1</sup>	Report results	2.8 × 10 <sup>5</sup> TCID <sub>50</sub> per mL at 11 days at 37°C and 5% CO <sub>2</sub>
Pre-Inactivation Sterility (21-day incubation) 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	No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth
DMEM with 10% FBS, 37°C and 5% CO <sub>2</sub> <b>Pre-Inactivation Mycoplasma Contamination</b> Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	No growth None detected None detected	No growth None detected None detected
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System <sup>3</sup> (Post vial; 8 replicates)	Report results	$1.7 \times 10^9$ genome equivalents/mL
Virus Inactivation (Post-Inactivation) 10% of total bulk irradiated preparation was plated on Vero E6 cells for 14 days at 37°C and 5% CO <sub>2</sub> and evaluated for cytopathic effect and presence of viral RNA by qPCR assay <sup>4</sup>	No viable virus detected	No viable virus detected

<sup>1</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint 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. <u>Handbook of Microbiological Media</u>. 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>Performed at University of Texas Medical Branch, Galveston, Texas, USA and BEI Resources

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