

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

Catalog No. NR-52287

Product Description:

NR-52287 is a gamma-irradiated preparation of severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), isolate USA-WA1/2020. NR-52287 was gamma-irradiated (5×10^6 RADs) on dry ice, followed by sonication to clarify the supernatant prior to vialing.

The starting material (BEI Resources NRC-52281 lot 70039066) was produced by infecting *Cercopithecus aethiops* kidney cells (Vero E6) in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 4 days at 37°C with 5% CO₂. Titer of spin clarified NRC-52281 was 2.8×10^6 TCID₅₀ per mL by TCID₅₀ assay in Vero E6 cells, determined by cytopathic effect in 5 days at 37°C with 5% CO₂, and sterility of the preparation was confirmed.

Lot: 70039068

Manufacturing Date: 01OCT2020

| TEST | SPECIFICATIONS | RESULTS |
|---|--------------------------|--|
| Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System¹ | Report results | 7.65×10^8 genome copies per mL ² |
| Virus Inactivation 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 ^{3,4} | No viable virus detected | No viable virus detected |

¹The genome copy number reported is obtained using Qiagen RNA extraction kit (Cat 52904).

²Two vials of NR-52287 lot 70039068 were used for RNA extraction. Average of the results obtained from nine replicates from each vial is reported.

³The gamma-irradiated virus preparation was plated on Vero E6 cells and incubated for 14 days at 37°C and 5% CO₂; 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% CO₂.

⁴Performed at University of Texas Medical Branch, Galveston, Texas, USA

/Heather Couch/

Heather Couch

24 FEB 2021

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 by ATCC® or the contractor 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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

