

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 lot 70047442) was produced by infecting *Cercopithecus aethiops* kidney cells (Vero E6; ATCC® CRL-1586™) 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. The titer of source material was 7.9×10^5 TCID₅₀ per mL by TCID₅₀ assay in Vero E6 cells, determined by cytopathic effect in 8 days at 37°C with 5% CO₂, and sterility of the preparation was confirmed.

Lot: 70048202

Manufacturing Date: 12NOV2021

TEST	SPECIFICATIONS	RESULTS
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System¹	Report results	1.05×10^9 genome copies per mL ²
Virus Inactivation 10% of total bulk gamma-irradiated preparation inoculated on Vero E6-TMPRSS2-T2A-ACE2 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 52906).

²The results obtained from nine replicates is reported.

³The gamma-irradiated virus preparation was plated on Vero E6-TMPRSS2-T2A-ACE2 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-TMPRSS2-T2A-ACE2 cells and again incubated for 14 days at 37°C and 5% CO₂.

⁴Indirect immunofluorescence assay performed at University of Texas Medical Branch, Galveston, Texas, USA

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