

SARS-Related Coronavirus 2, Isolate hCoV-19/USA/MD-HP05285/2021 (Lineage B.1.617.2; Delta Variant), Gamma-Irradiated

Catalog No. NR-56129

Product Description:

NR-56129 is a gamma-irradiated preparation of severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), isolate hCoV-19/USA/MD-HP05285/2021. NR-56129 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 70047502) 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% CO₂. Titer of spin clarified lot 70047502 was 4.4×10^6 TCID₅₀ per mL by TCID₅₀ assay in Calu-3 cells, determined by cytopathic effect in 7 days at 37°C with 5% CO₂, and sterility of the preparation was confirmed.

Lot: 70048071

Manufacturing Date: 08OCT2021

TEST	SPECIFICATIONS	RESULTS
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System¹	Report results	1.33×10^9 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 52906).

²The results obtained from nine replicates 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.

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

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