

Middle East Respiratory Syndrome Coronavirus, Isolate HU/Riyadh-KSA-18013832/2018, Gamma-Irradiated

Catalog No. NR-59951

Product Description:

NR-59951 consists of a preparation of spin clarified supernatant from human colorectal adenocarcinoma cells (Caco-2; ATCC® HTB-37™) infected with Middle East respiratory syndrome coronavirus, isolate HU/Riyadh-KSA-18013832/2018 (NRC-59606 lot 70071973) that was gamma-irradiated (5×10^6 RADs) on dry ice, followed by sonication.

The starting material (BEI Resources lot 70071973) was produced by infecting human colorectal adenocarcinoma cells (Caco-2) 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 70071973 was 4.4×10^7 TCID₅₀ per mL by TCID₅₀ assay in Caco-2 cells, determined by cytopathic effect in 5 days at 37°C with 5% CO₂, and sterility of the preparation was confirmed.

Lot: 70071972

Manufacturing Date: 15OCT2024¹

TEST	SPECIFICATIONS	RESULTS
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System² (15 replicates)	Report results	7.2×10^8 genome equivalents/mL
Virus Inactivation (Post-Inactivation) 10% of total bulk irradiated preparation was plated on Caco-2 cells for 14 days at 37°C and 5% CO ₂ for two passages and evaluated for cytopathic effect and expression of viral antigen by indirect immunofluorescence assay ^{3,4}	No viable virus detected	No viable virus detected

¹Dispensed 25OCT2024

²The GE value reported is obtained using Qiagen RNA extraction kit (Cat 52906).

³The gamma-irradiated virus preparation was plated on Caco-2 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 Caco-2 cells and again incubated for 14 days at 37°C and 5% CO₂.

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

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