

Influenza A Virus, A/Colorado/109/2024 (H5N1), Tissue Culture Adapted, Gamma-Irradiated

Catalog No. NR-59977

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Product Description:

NR-59977 consists of a crude preparation of cell lysate and supernatant from Madin-Darby canine kidney cells (MDCK; ATCC® CCL-34™) infected with influenza A virus, A/Colorado/109/2024 (H5N1) (NRC-59773 lot 70072279) that was gamma-irradiated (5×10^6 RADs) on dry ice, followed by sonication.

The starting material (BEI Resources lot 70072279) was produced by infecting Madin-Darby canine kidney cells (MDCK) in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 0.125% bovine serum albumin and 1 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin for 2 days at 35°C with 5% CO₂. Titer of spin clarified lot 70072279 was 1.9×10^8 TCID₅₀ per mL by TCID₅₀ assay in MDCK cells, determined by cytopathic effect and HA in 5 days at 35°C with 5% CO₂, and sterility of the preparation was confirmed.

Lot: 70072693

Manufacturing Date: 11NOV2024

TEST	SPECIFICATIONS	RESULTS
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System¹ (12 replicates)	Report results	4.4×10^8 genome equivalents/mL
Virus Inactivation (Post-Inactivation) 10% of total bulk irradiated preparation was plated on MDCK 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 ²	No viable virus detected	No viable virus detected

¹The GE value reported is obtained using Qiagen RNA extraction kit (Cat 52906).

²Performed at University of Texas Medical Branch, Galveston, Texas, USA

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22 APR 2025

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