

Genomic RNA from Chikungunya Virus, 181/25

Catalog No. NR-50345

Product Description:

Genomic RNA was isolated from a preparation of clarified supernatant from *Chlorocebus* (previously *Cercopithecus*) *aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) infected with chikungunya virus (CHIKV), 181/25 (BEI Resources lot 70050553) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70058080

Manufacturing Date: 18JAN2023

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 1060 nucleotides)	≥ 98% identity with CHIKV, 181/25 (GenBank: MW473668.1)	100% identity with CHIKV, 181/25 (GenBank: MW473668.1)
Functional Activity by RT-PCR Amplification¹ NSP gene	~ 1180 base pair amplicon	~ 1180 base pair amplicon (Figure 1)
Estimated Concentration (post-dilution) by RiboGreen® Measurement (Viral, Cellular and Carrier)²	Report results	24.5 ng per 100 µL (0.25 µg/mL)
Estimated Amount per Vial²	Report results	24.5 ng
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System (Post vial; 18 replicates)	Report results	1.4 × 10 ⁸ NDU/mL ³
Virus Inactivation 10% of total yield inoculated on Vero cells and evaluated for cytopathic effect and by RT-PCR after serial passage ⁴	No viable virus detected	No viable virus detected

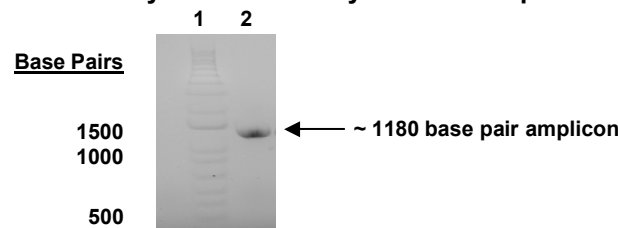
¹Amplified using iTaq™ Universal SYBR Green One-Step Kit (Bio-Rad® 172-5151) with 5 µL of NR-50345 in a 50 µL reaction

²Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

³NDU; NAAT(Nucleic acid amplification testing) Detectable Unit

⁴Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of CHIKV as shown by the absence of cytopathic effect (CPE) and viral RNA expression by RT-PCR after plating the entire extract on virus-susceptible cells for two passages.

Figure 1: Functional Activity of NR-50345 by RT-PCR Amplification



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder

Lane 2: PCR product from 1 µL of NR-50345

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16 MAY 2023

Technical Manager or designee, ATCC Federal Solutions

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