

Genomic RNA from Chikungunya Virus, S-27

Catalog No. NR-50129

Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) infected with Chikungunya Virus, S-27 (BEI Resources lot 61216441) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70039619

Manufacturing Date: 13OCT2020

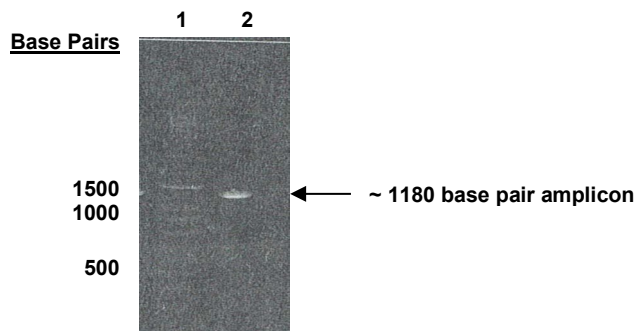
TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 970 nucleotides)	≥ 98% identity with CHIKV, S- 27 (GenBank: AF369024.2)	99.7% identity with with CHIKV, S- 27 (GenBank: AF369024.2)
Functional Activity by RT-PCR Amplification¹ NSP gene	~ 1180 base pair amplicon	~ 1180 base pair amplicon (Figure 1)
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)²	Report results	1.2 ng per 100 µL (0.012 µg per mL)
Virus Inactivation 10% of total yield inoculated on Vero E6 cells and evaluated for cytopathic effect and by RT-PCR after serial passage ³	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-50129 in a 50 µL reaction

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

³Use 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-50129 by RT-PCR Amplification of NSP Gene



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 1 µL of NR-50129

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