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SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-2869

Genomic RNA from Yellow Fever Virus, 17D

Catalog No. NR-2869

Product Description: Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial (Vero)[1] cells infected with yellow fever virus (YFV), 17D.

Lot[2]: 64315467 **Manufacturing Date: 17JUN2016**

TEST	SPECIFICATIONS	RESULTS
Sequencing of Species-Specific Region Polyprotein gene NS5 region (1093 nucleotides)	Consistent with YFV, 17D	99% identity with YFV, 17D (GenBank: X03700)
Functional Activity by RT-PCR Amplification[3]	~ 1100 bp amplicon	~ 1100 bp amplicon (Figure 1)
Total RNA Content by RiboGreen® Measurement (Viral, Cellular and Carrier)	Report results	28.6 ng per 100 µL
Virus Inactivation 10% of total yield inoculated on Vero cells and evaluated for cytopathic effect[4]	No viable virus detected	No viable virus detected

[1]Vero cells: ATCC® CCL-81™

[2]Nucleic acid was extracted from a preparation of YFV, 17D (BEI Resources NR-116, Lot 7496109), using a QIAamp® Viral RNA Mini Kit (Qiagen 52906).

[3]Reverse transcritption was performed using an iScript™ cDNA Synthesis Kit (Bio-Rad 1708891) with 10 µL of NR-2869 in a 20 µL reaction; PCR was performed using iTaq™ DNA Polymerase (Bio-Rad 1708870) with 10 µL of cDNA in a 50 µL reaction.

[4]Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of yellow fever virus as shown by the absence of cytopathic effect (CPE) after plating the entire extract on virus-susceptible cells.

Date: 29 NOV 2016 **Signature:** Michael R. Gyrla

BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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Support Provided by NIAID

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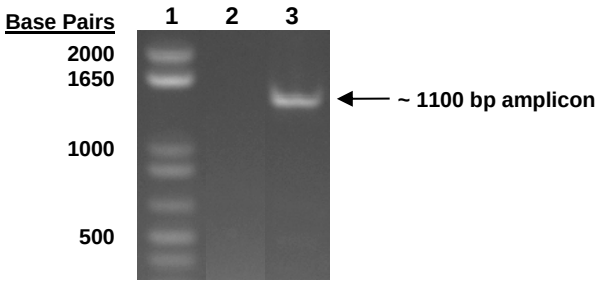
Figure 1



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: Negative control
Lane 3: NR-2869

BEI Resources
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