# Certificate of Analysis for NR-2869

## Genomic RNA from Yellow Fever Virus, 17D

## Catalog No. NR-2869

## Product Description:

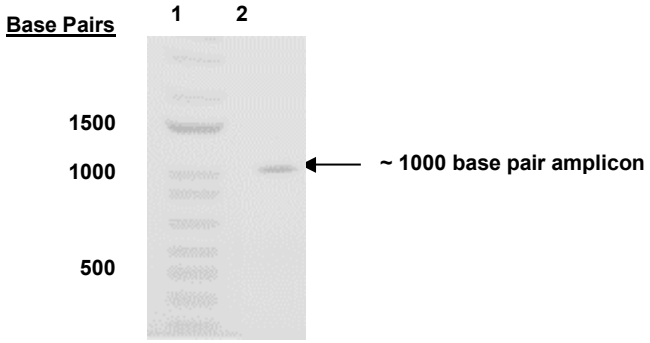
Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Chlorocebus* (formerly *Cercopithecus) aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) infected with yellow fever virus (YFV), 17D (BEI Resources lot 70018947) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

**Lot: 70035236** **Manufacturing Date: 30SEP2020**

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| **Genotypic Analysis**<br>Sequencing of species-specific region (~ 890 nucleotides) | ≥ 98% identity with YFV, 17D (GenBank: JX949181) | 99.9% identity with YFV, 17D (GenBank: JX949181) |
| **Functional Activity by RT-PCR Amplification[1]**<br>Glycoprotein gene | ~ 1000 base pair amplicon | ~ 1000 base pair amplicon (Figure 1) |
| **Estimated Concentration (post-dilution) by RiboGreen® Measurement (Viral, Cellular and Carrier)[2]** | Report results | 3.3 ng per 100 µL (0.003 µg/mL) |
| **Estimated Amount per Vial[2]** | Report results | 3.3 ng |
| **Virus Inactivation**<br>10% of total yield inoculated on Vero cells and evaluated for cytopathic effect and fluorescent antibody testing after serial passage[3,4] | No viable virus detected | No viable virus detected |

[1]Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-2869 in a 50 µL reaction
[2]Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method
[3]FA testing performed with anti-flavivirus group MAB (BEI Resources NR-50327) and anti-mouse FITC (Light Diagnostics 5008)
[4]Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of YFV as shown by the absence of cytopathic effect (CPE) and fluorescence after plating the entire extract on virus-susceptible cells for two passages.

**Figure 1: Functional Activity of NR-2869 by RT-PCR Amplification of Polyprotein Gene**




**Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder**
**Lane 2: PCR product from 1 µL of NR-2869**

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/Sonia Bjorum Brower/
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Technical Manager or designee, ATCC Federal Solutions

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