

Zika Virus, PRVABC59, Heat-Inactivated

Catalog No. NR-50369

Product Description: Clarified cell lysate and supernatant from Vero E6 cells infected with Zika virus, PRVABC59 that has been inactivated by heating to 65°C for 30 minutes

Lot: 64493946

Manufacturing Date: 28JUN2016

TEST	SPECIFICATIONS	RESULTS
Pre-Inactivation Titer by TCID₅₀ Assay in Vero E6 Cells^{1,2}	Report results	2.8 × 10 ⁷ TCID ₅₀ per mL
Pre-Inactivation Sterility iNST culture bottle, 32°C, anaerobic, 14-day incubation iAST culture bottle, 32°C, aerobic, 14-day incubation	No growth No growth	No growth No growth
Pre-Inactivation Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA Detection by PCR of Test Article nucleic acid	None detected None detected	None detected None detected
Viral Genome Copy Number Droplet Digital RT-PCR Quantitative Real-Time RT-PCR	Report results Report results	4.6 × 10 ⁶ copies per µL 1.1 × 10 ⁷ copies per µL
Altona Diagnostics RealStar® Zika Virus RT-PCR Test	Zika virus RNA detected	Zika virus RNA detected
CDC Triplex Real-Time RT-PCR Assay Chikungunya virus Dengue virus Zika virus	None detected None detected Detected	None detected None detected Detected
Virus Inactivation 10% of total bulk heat-treated preparation inoculated on Vero E6 cells and evaluated for cytopathic effect, viral antigen expression by indirect immunofluorescence assay, and presence of viral RNA by real-time RT-PCR ³	No viable virus detected	No viable virus detected
Amplification of Zika Virus NS3/NS4 Coding Region by RT-PCR Pre-inactivation Post-Inactivation ⁴	Report results Report results	~ 1100 bp amplicon None detected

¹The Tissue Culture Infectious Dose 50% (TCID₅₀) is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

²7 days at 37°C and 5% CO₂

³The inactivated virus preparation was plated on Vero E6 cells and incubated for 14 days at 37°C and 5% CO₂; cell lysate and supernatant from these cultures was blind passaged on fresh monolayers of Vero E6 cells and again incubated for 7 days at 37°C and 5% CO₂.

⁴NR-50369 does not contain intact Zika virus genomic RNA, and should not be used as a source of nucleic acid for transfection or for RT-PCR of "gene-length" amplicons.

Date: 21 OCT 2016

Signature: 

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