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Certificate of Analysis for NR-4287

Genomic RNA from Dengue Virus Type 1, Hawaii

Catalog No. NR-4287

Product Description: Genomic RNA was isolated from a preparation of cell lysate and supernatant from African green monkey (Vero) cells[1] infected with dengue virus type 1 (DEN-1), Hawaii.

Lot[2]: 57558391 **Manufacturing Date: 05JAN2009**

TEST	SPECIFICATIONS	RESULTS
Sequencing of DEN-1 Specific Sequence (~ 470 nucleotides)	Identical to DEN-1, Hawaii (GenBank: EU848545)	Identical to DEN-1, Hawaii (GenBank: EU848545)
Functional Activity by RT-PCR Amplification[3]	~ 1200 bp amplicon	~ 1200 bp amplicon (see Figure 1)
Total RNA Content by RiboGreen® Measurement (Viral, Cellular, and Carrier)	Report results	1670 ng per 100 µL
Total Cellular DNA Content by PicoGreen® Measurement	Report results	420 ng per 100 µL
Virus Inactivation 10% of total yield inoculated on Vero cells and evaluated for cytopathic effect[1,4]	No viable virus detected	No viable virus detected
Sodium Azide Content	Report results	0.0008%

[1]Vero cells: ATCC® CCL-81™.
[2]Nucleic acid was extracted from a preparation of DEN-1, Hawaii using a QIAGEN QIAamp® Viral RNA Mini Kit.
[3]Amplified using a 1:10 dilution of NR-4287 and a QIAGEN One-Step RT-PCR Kit (210212).
[4]This extraction procedure has been shown to consistently inactivate 100% of dengue viruses using a number of methods designed to detect the virus in cells: 1) cytopathic effect (100% plating, 10% plating, blind passage sub-culturing) and 2) indirect immunofluorescence of viral antigens.

Date: 02 MAY 2011 **Signature:** Dorothy C. Young

Title: Technical Manager, BEI Authentication or designee

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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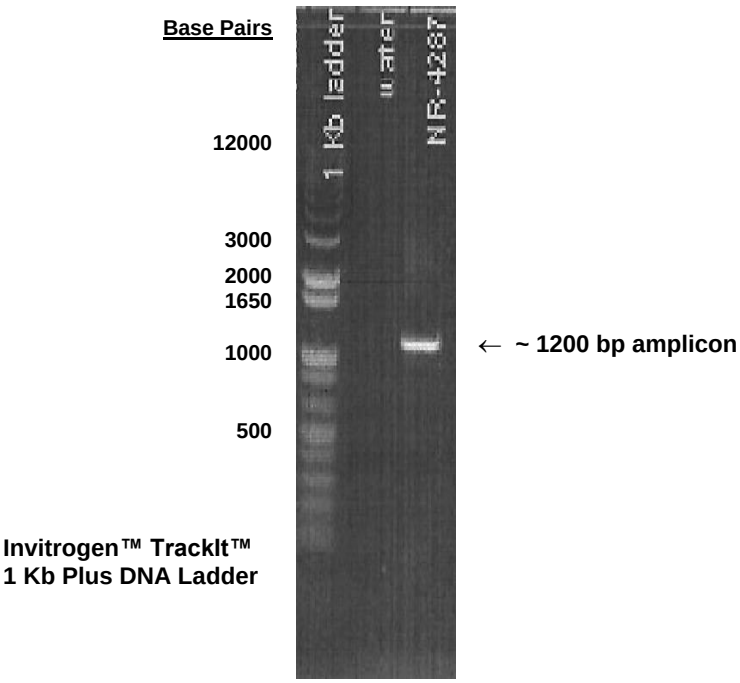
Figure 1



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