

Genomic RNA from Enterovirus D68, US/IL/14-18956

Catalog No. NR-49138

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Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from human rhabdomyosarcoma (RD) cells infected with enterovirus D68 (EV-D68), US/IL/14-18956.¹

Lot: 70026007²

Manufacturing Date: 05JUN2019

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of VP1 Capsid Gene (~ 960 nucleotides)	≥ 99% sequence identity to EV D68, US/IL/14-18956 (GenBank: MK268345.1)	99.9% sequence identity to EV D68, US/IL/14-18956 (GenBank: MK268345.1)
Functional Activity by RT-PCR Amplification³ VP1 capsid protein gene	~ 1100 base pair amplicon	~ 1100 base pair amplicon (Figure 1)
Pre-Vial Concentration by RiboGreen[®] Measurement (Viral, Cellular and Carrier)⁴	Report results	3.0 ng in 100 µL per vial (0.03 µg/mL)
Estimated Amount per Vial⁴	Report Results	3.0 ng
Virus Inactivation 10% of total yield inoculated on RD cells and evaluated for cytopathic effect (CPE) and viral protein expression by immunofluorescence assay (IFA) ^{5,6}	No viable virus detected	No viable virus detected

¹RD cells: ATCC[®] CCL-136[™]

²Nucleic acid was extracted from a preparation of enterovirus D68, US/IL/14-18956 (BEI Resources NR-49133 lot 70018975), using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

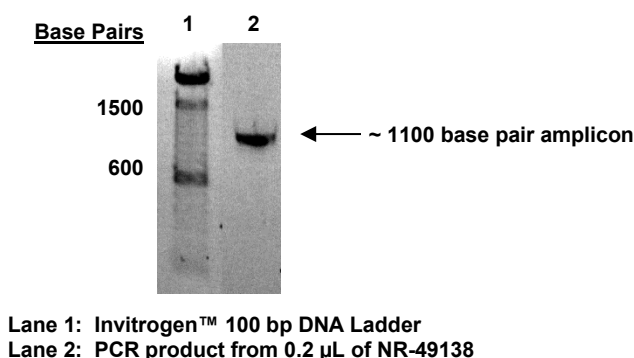
³cDNA was generated using iScript[™] cDNA Synthesis kit (Bio-Rad 170-8891). 2 µL of NR-49138 cDNA was amplified in a 50 µL reaction using iTaq[™] DNA Polymerase (Bio-Rad 170-8870).

⁴Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method.

⁵Use of the QIAamp[®] Viral RNA Mini Kit has been demonstrated to consistently inactivate enterovirus as shown by the absence of CPE and viral protein expression by IFA after plating the entire extract on virus-susceptible cells.

⁶IFA performed using Pan-Enterovirus Reagent (Millipore 3360)

Figure 1: Functional Activity of NR-49138 by RT-PCR Amplification of VP1 Capsid Protein Gene



Certificate of Analysis for NR-49138

/Heather Couch/

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04 SEP 2019

Program Manager or designee, ATCC Federal Solutions

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