

Genomic RNA from Human Coronavirus (HCoV), NL63

Catalog No. NR-44105

Product Description: Genomic RNA was isolated from a preparation of cell lysate and supernatant from monkey kidney (LLC-MK2) cells¹ infected with human coronavirus (HCoV), NL63.

Lot²: 61929096

Manufacturing Date: 06AUG2013

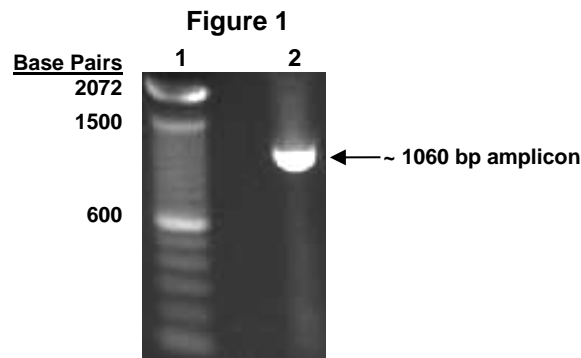
TEST	SPECIFICATIONS	RESULTS
Sequencing of Species-Specific Region (913 nucleotides)	Consistent with HCoV, NL63	100% identity with HCoV, NL63 (GenBank: AY567487)
Functional Activity by RT-PCR Amplification³	~ 1060 bp amplicon	~ 1060 bp amplicon (See Figure 1)
Total RNA Content by RiboGreen[®] Measurement (Viral, Cellular and Carrier)	Report results	62 ng per 100 µL
Virus Inactivation 10% of total yield inoculated on HEp-2 cells ¹ and evaluated for cytopathic effect ⁴	No virus detected	No virus detected

¹LLC-MK2 cells: ATCC[®] CCL-7.1™

²Nucleic acid was extracted from a preparation of HCoV, NL63 (BEI Resources NR-470, Lot 3946804), using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

³Amplified using iScript™ One-Step RT-PCR Kit with SYBR Green (Bio-Rad 170-8893) with 5 µL of NR-44105 in a 50 µL reaction

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



Date: 03 DEC 2013

Signature: *Michael R. Gynther*

Title: Technical Manager, BEI Authentication or designee

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