

Genomic RNA from Human Coronavirus, 229E

Catalog No. NR-52728

Product Description:

Genomic RNA was extracted from a preparation of cell lysate and supernatant from human lung fibroblast cells (MRC-5; ATCC® CCL-171™) infected with human coronavirus (HCoV), 229E (BEI Resources NR-52726 lot 70035627), using QIAamp® Viral RNA Mini Kit (Qiagen 52904). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

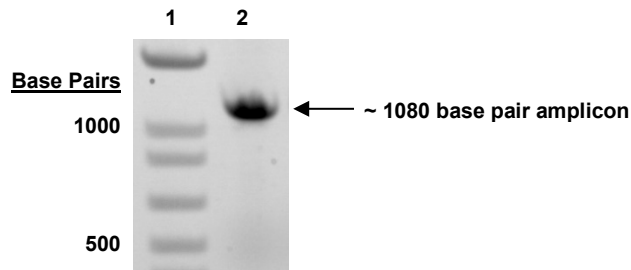
Lot: 70036554

Manufacturing Date: 09JUN2020

TEST	SPECIFICATIONS	RESULTS
Sequencing of Species-Specific Region (~ 960 nucleotides)	≥ 98% identity with HCoV, 229E (GenBank: AF304460.1)	100% identity with HCoV, 229E (GenBank: AF304460.1)
Functional Activity by RT-PCR Amplification¹	~ 1080 base pair amplicon	~ 1080 base pair amplicon (Figure 1)
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System (Post vial; 6 replicates)	Report results	3.64 × 10 ⁷ genome equivalents/mL
Virus Inactivation (14 Days, 1 Passage) 10% of total yield inoculated on Vero E6 cells and evaluated for cytopathic effect	No viable virus detected	No viable virus detected
Virus Inactivation (14 Days, 1 Passage) 100% of total yield inoculated on Vero E6 cells and evaluated for cytopathic effect	No viable virus detected	No viable virus detected

¹Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad 172-5151) with 5 µL of NR-52728 in a 50 µL reaction

Figure 1: Functional Activity of NR-52728 by RT-PCR Amplification



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 1 µL of NR-52728

/Heather Couch/
Heather Couch

14 AUG 2020

Program Manager or designee, ATCC Federal Solutions

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.

ATCC® is a trademark of the American Type Culture Collection.
You are authorized to use this product for research use only. It is not intended for human use.

