

**Genomic RNA from Human Coronavirus, OC43**

**Catalog No. NR-52727**

**Product Description:**

Genomic RNA was extracted from a preparation of cell lysate and supernatant from human ileocecal colorectal adenocarcinoma cells (HCT-8 [HRT-18]; ATCC® CCL-244™) infected with human coronavirus (HCoV), OC43 (BEI Resources NR-52725 lot 70035625), using QIAamp® Viral RNA Mini Kit (Qiagen 52904). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

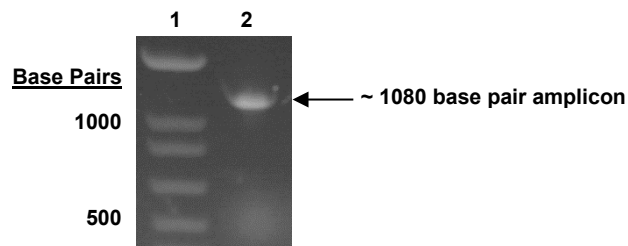
**Lot: 70036553**

**Manufacturing Date: 18JUN2020**

TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of Species-Specific Region (~ 860 nucleotides)	≥ 98% identity with HCoV, OC43 (GenBank: AY585228.1)	100% identity with HCoV, OC43 (GenBank: AY585228.1)
<b>Functional Activity by RT-PCR Amplification<sup>1</sup></b>	~ 1080 base pair amplicon	~ 1080 base pair amplicon (Figure 1)
<b>Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System</b> (Post vial; 6 replicates)	Report results	2.03 × 10 <sup>8</sup> genome equivalents/mL
<b>Virus Inactivation (14 Days, 1 Passage)</b> 10% of total yield inoculated on HCT-8 cells and evaluated for cytopathic effect	No viable virus detected	No viable virus detected
<b>Virus Inactivation (14 Days, 1 Passage)</b> 100% of total yield inoculated on HCT-8 cells and evaluated for cytopathic effect	No viable virus detected	No viable virus detected

<sup>1</sup>Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad 172-5151) with 5 µL of NR-52727 in a 50 µL reaction

**Figure 1: Functional Activity of NR-52727 by RT-PCR Amplification**



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder  
Lane 2: PCR product from 1 µL of NR-52727

/Heather Couch/  
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17 SEP 2020

Program Manager or designee, ATCC Federal Solutions

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