

**Genomic RNA from Human Coronavirus, OC43**

**Catalog No. NR-56242**

**Product Description:**

Genomic RNA was isolated from a preparation of cell lysate and supernatant from human ileocecal colorectal adenocarcinoma cells (HRT-18G; ATCC CRL-11663™) infected with human coronavirus (HCoV), OC43 (BEI Resources lot 70048790) using QIAamp® Viral RNA Mini Kit (Qiagen® 52904). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

**Lot: 70053411**

**Manufacturing Date: 20JUN2022**

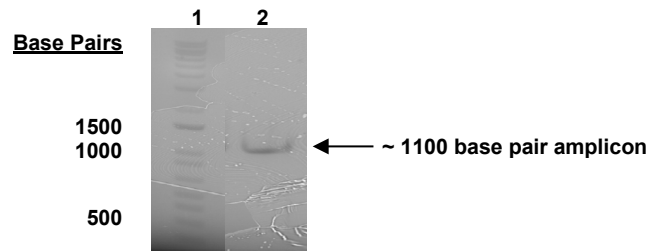
TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of species-specific region (~ 970 nucleotides)	≥ 98% identity with HCoV, OC43 (GenBank: AY585228.1)	100% identity with HCoV, OC43 (GenBank: AY585228.1)
<b>Functional Activity by RT-PCR Amplification<sup>1</sup></b> Nucleocapsid gene	~ 1100 base pair amplicon	~ 1100 base pair amplicon (Figure 1)
<b>Estimated Concentration (post-dilution) by RiboGreen® Measurement (Viral, Cellular and Carrier)<sup>2</sup></b>	Report results	0.5 ng per 100 µL (0.005 µg per mL)
<b>Estimated Amount per Vial<sup>2</sup></b>	Report Results	0.5 ng
<b>Virus Inactivation</b> 10% of total yield inoculated on HRT-18G cells and evaluated for cytopathic effect <sup>3</sup>	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-56242 in a 50 µL reaction

<sup>2</sup>Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

<sup>3</sup>Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of hCoV as shown by the absence of cytopathic effect (CPE) after plating the entire extract on virus-susceptible cells.

**Figure 1: Functional Activity of NR-56242 by RT-PCR Amplification**



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder  
Lane 2: PCR product from 1 µL of NR-56242

/Sonia Bjorun Brower/  
Sonia Bjorun Brower

Technical Manager or designee, ATCC Federal Solutions

06 SEP 2022

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.

