

Certificate of Analysis for NR-56241

Human Coronavirus, OC43 in HRT-18G Cells

Catalog No. NR-56241

Product Description:

Human coronavirus (HCoV), OC43 was isolated in 1967 from a respiratory sample from a human adult with a cold-like illness in the Common Cold Unit, Salisbury, England, United Kingdom and deposited with ATCC® as VR-759™, which was cleaned of mycoplasma contamination and adapted to cell culture and became VR-1558™. VR-1558 was used to produce BEI Resources NR-56241. NR-56241 lot 70048790 was produced by infecting human ileocecal colorectal adenocarcinoma cells (HRT-18G; ATCC CRL-11663™) and incubating in DMEM (ATCC 30-2002™) supplemented with 2% irradiated fetal bovine serum (Hyclone® SH30070-03) for 4 days at 33°C with 5% CO₂.

Passage History:

X(?)HRT-18(7)/HCT-8(6)/HCT-8(1);HRT-18G(1) (Prior to deposit at ATCC/ATCC/BEI Resources); X = Unknown; HRT-18 = Human ileocecal colorectal adenocarcinoma cells; HCT-8 = Human ileocecal colorectal adenocarcinoma cells (ATCC CCL-244); HRT-18G (ATCC CRL-11663)

Lot: 70048790 Manufacturing Date: 12OCT2021

TEOT	ODECIFICATIONS	DECULTO
TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in HRT-18G Cells	Vacuolation, degeneration and detachment	Vacuolation, degeneration and detachment
Sequencing of Species-Specific Region (~ 1000 nucleotides)	≥ 98% identity with HCoV, OC43 (GenBank: AY585228.1)	100% identity with HCoV, OC43 (GenBank: AY585228.1)
Titer by TCID₅ Assay in HRT-18G Cells by Cytopathic Effect¹ (8 days at 33°C and 5% CO₂)	Report results	2.8 × 10 ⁷ TCID ₅₀ per mL
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic ²	No growth	No growth
Trypticase Soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected

¹The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation. ²Atlas, Ronald M. <u>Handbook of Microbiological Media</u>. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Heather Couch/

Heather Couch 05 APR 2022

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.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898