

Human Coronavirus, 229E

Catalog No. NR-52726

Product Description:

Human coronavirus (HCoV), 229E was isolated in 1962 from a human adult with minor upper respiratory illness. HCoV, 229E was deposited with ATCC® as VR-740, which was used to produce NR-52726. NR-52726 lot 70045193 was produced by infecting human lung fibroblast cells (MRC-5; ATCC® CCL-171™) and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 4 days at 35°C with 5% CO₂.

Passage History:

HK(2)WI(11)RU(8)WI(1)MRC(3)/MRC(3) (Prior to deposit at BEI Resources/BEI Resources); HK = Human embryonic kidney cells; WI = Human lung fibroblast WI-38 cells; RU = Human embryonic lung RU-1 cells; MRC = MRC-5 cells

Lot: 70045193

Manufacturing Date: 18JUL2021

BEI Resources is committed to ensuring digital accessibility for people with disabilities. This Certificate of Analysis contains complex tables and may not be fully accessible. Please let us know if you encounter accessibility barriers and a fully accessible document will be provided: E-mail: Contact@BEIResources.org. We try to respond to feedback within 24 hours.

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in MRC-5 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~930 nucleotides)	≥ 98% identity with HCoV, 229E (GenBank: AF304460)	100% identity with HCoV, 229E (GenBank: AF304460)
Titer by TCID₅₀ Assay in MRC-5 Cells by Cytopathic Effect¹ (7 days at 35°C and 5% CO ₂)	Report results	2.8 × 10 ⁵ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ² Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C, aerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	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. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Heather Couch/

Heather Couch

02 NOV 2021

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.

