

Human Coronavirus (HCoV), NL63

Catalog No. NR-470

Product Description: Cell lysate and supernatant from monkey kidney (LLC-MK2) cells¹ infected with human coronavirus, NL63.

Lot²: 3946804

Manufacturing Date: 30JAN2005

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in LLC-MK2 Cells ^{1,3}	Cell lysis	Cell lysis
Identification by Sequencing	Human coronavirus, NL63	Human coronavirus, NL63
Titer by TCID ₅₀ Assay in LLC-MK2 Cells ^{1,3,4}	Report results	1.6 X 10 ⁶ TCID ₅₀ /mL
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 37°C and 26°C, aerobic 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 and 5% CO ₂	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

¹LLC-MK2 cells: ATCC® CCL-7.1™.

²Grown in Eagle's Minimum Essential Medium containing Earle's salts and non-essential amino acids (ATCC® 30-2003) supplemented with 2% fetal bovine serum (ATCC® 30-2021) for 6 days at 34°C and 5% CO₂.

³7 days at 37°C and 5% CO₂; note differences from optimal conditions for virus growth.

⁴TCID₅₀ (50% tissue culture infectious dose): The TCID₅₀ is the 50% infectious endpoint in tissue 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. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer of a virus preparation.

⁵Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 16 MAR 2011

Signature:



Title:

Technical Manager, BEI Authentication or designee

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