

Certificate of Analysis for NR-59471

A549-ACE2plusC3 Cell Line

Catalog No. NR-59471

Product Description:

A549 cells were transfected using lentivirus. Angiotensin C Enzyme 2 and TMPRSS2 genes were added, resulting in A549-ACE2plus, a SARS-CoV-2 susceptible cell line expressing ACE2 and TMPRSS2. Following single-cell sorting, Subclone 3 was derived, resulting in A549-ACE2plusC3.

Lot: 70063489 Manufacturing Date: 15SEP2023

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology	Epithelial-like	Epithelial-like
Confirmation of ACE2 Expression by Fluorescent Antibody Assay ¹	Fluorescence observed	Fluorescence observed
Confirmation of TMPRSS2 Expression by Fluorescent Antibody Assay ²	Fluorescence observed	Fluorescence observed
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	Human origin No evidence of another species	Human origin No evidence of another species
Total Cell Count	> 1.0 × 10 ⁶ cells/vial	5.2 × 10 ⁶ cells/vial
Post-Freeze Viability	≥ 50%	94.3%
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic ³	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 and 5% CO ₂	No growth	No growth
Mycoplasma Contamination	-	
Hoechst DNA stain	None detected	None detected
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

¹Performed using Proteintech (66699-1-1g) at 1:300

/Sonia Bjorum Brower/ Sonia Bjorum Brower

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²Performed using EMD Millipore (MABF2158) at 1:250

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