

Human Lung Carcinoma Cells (A549) Expressing Human Angiotensin-Converting Enzyme 2

Catalog No. NR-53821

Product Description:

NR-53821 contains a preparation of human (*Homo sapiens*) lung carcinoma epithelial cells (A549) expressing human angiotensin-converting enzyme 2 (ACE2). A549-hACE2 cells were created by stable insertion of human ACE2 driven by elongation factor-1 α (EF-1 α) promoter using the Sleeping Beauty transposon system pSBbi-BB (Addgene 60521). pSBbi-BB contains a blasticidin resistance gene for selection of transfected cells.

Lot: 70039351

Manufacturing Date: 01OCT2020

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology	Epithelial	Epithelial
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 \times 10 ⁶ cells per vial	5.3 \times 10 ⁶ cells per vial
Post-Freeze Viability	\geq 50%	84.8%
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ¹ 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 Hoechst DNA stain 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 None detected None detected

¹Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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