

**Human Embryonic Kidney Cells (HEK-293T) Expressing Human Angiotensin-Converting Enzyme 2, HEK-293T-hACE2 Cell Line**

**Catalog No. NR-52511**

**Product Description:**

NR-52511 contains a preparation of *Homo sapiens* embryonic kidney cells (HEK-293T) constitutively expressing human angiotensin-converting enzyme 2 (ACE2). The HEK-293T-hACE2 cell line was created by transducing HEK-293T cells with lentiviral vector expressing ACE2 under the control of human elongation factor 1a (EF1a) promoter.

**Lot: 70043731**

**Manufacturing Date: 23APR2021**

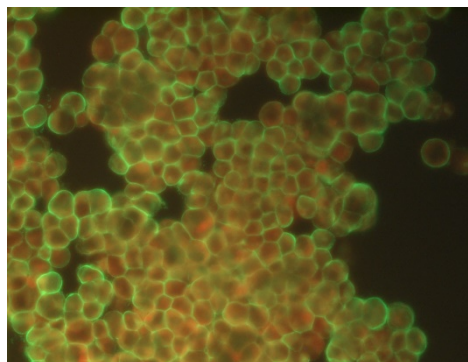
TEST	SPECIFICATIONS	RESULTS
<b>Growth Properties</b>	Adherent	Adherent
<b>Morphology</b>	Epithelial	Epithelial
<b>Confirmation of ACE2 Expression in Seed Material by Indirect Fluorescent Antibody (IFA) Assay<sup>1</sup></b>	Fluorescence observed	Fluorescence observed (Figure 1) <sup>2</sup>
<b>Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene</b>	Human origin No evidence of another species	Human origin No evidence of another species
<b>Total Cell Count</b>	> 1.0 × 10 <sup>6</sup> cells per vial	3.7 × 10 <sup>6</sup> cells per vial
<b>Post-Freeze Viability</b>	≥ 50%	82.6%
<b>Sterility (22-day incubation)</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>3</sup> 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
<b>Mycoplasma Contamination</b> 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

<sup>1</sup>IFA performed using ACE2 mouse monoclonal antibody (Proteintech®, 66699-1-Ig)

<sup>2</sup>Image obtained from test performed using seed material (NR-52511 lot 70035460) in August 2020.

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

**Figure 1: Indirect Fluorescent Antibody Assay**



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28 JUL 2021

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