

***Cercopithecus aethiops* Kidney Epithelial Cells Expressing Transmembrane Protease, Serine 2 and Human Angiotensin-Converting Enzyme 2 (Vero E6-TMPRSS2-T2A-ACE2)**

**Catalog No. NR-54970**

**Product Description:**

NR-54970 (Vero E6-TMPRSS2-T2A-ACE2 cells) contains a preparation of *Cercopithecus aethiops* kidney epithelial cells (Vero E6; ATCC® CRL-1586™) which were modified to express higher levels of transmembrane protease, serine 2 (TMPRSS2) and angiotensin-converting enzyme 2 (ACE2).

**Lot: 70042781**

**Manufacturing Date: 15MAR2021**

TEST	SPECIFICATIONS	RESULTS
<b>Growth Properties</b>	Adherent	Adherent
<b>Morphology</b>	Epithelial	Epithelial
<b>Confirmation of ACE2 Expression by Indirect Fluorescent Antibody Assay<sup>1</sup></b>	Fluorescence observed	Fluorescence observed (Figure 1)
<b>Confirmation of TMPRSS2 Expression by Indirect Fluorescent Antibody Assay<sup>2</sup></b>	Fluorescence observed	Fluorescence observed (Figure 2)
<b>Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene</b>	African green monkey origin No evidence of another species	African green monkey origin No evidence of another species
<b>Total Cell Count</b>	> 1.0 × 10 <sup>6</sup> cells per vial	3.1 × 10 <sup>6</sup> cells per vial
<b>Post-Freeze Viability</b>	≥ 50%	93.3%
<b>Sterility (21-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>Using Anti-ACE2 mouse monoclonal antibody (Proteintech®, 66699-1-Ig)

<sup>2</sup>Using Anti-TMPRSS2 mouse monoclonal antibody (Millipore®, MABF2158-25ug)

<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: IFA for Confirmation of ACE2 Expression

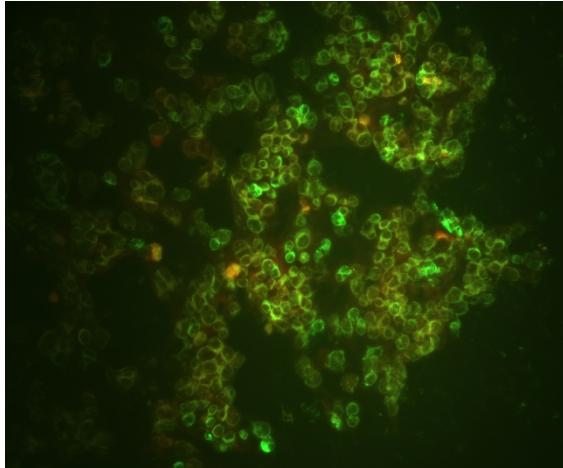
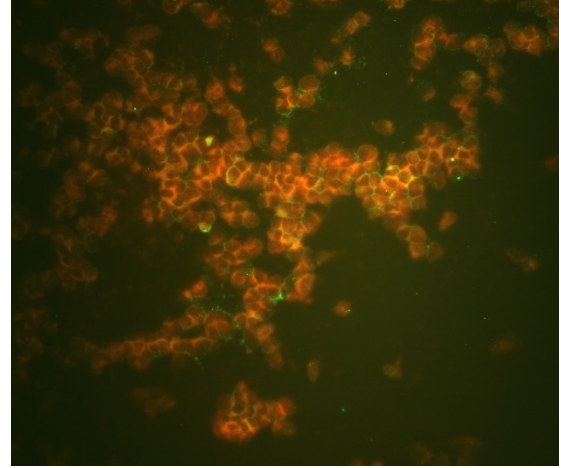


Figure 2: IFA for Confirmation of TMPRSS2 Expression



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