

***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: 70050995

Manufacturing Date: 07MAR2022

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology	Epithelial	Epithelial
Confirmation of ACE2 Expression by Indirect Fluorescent Antibody Assay (Seed Material)¹	Fluorescence observed	Fluorescence observed (Figure 1)
Confirmation of TMPRSS2 Expression by Indirect Fluorescent Antibody Assay (Seed Material)²	Fluorescence observed	Fluorescence observed (Figure 2)
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	African green monkey origin No evidence of another species	African green monkey origin No evidence of another species
Total Cell Count	> 1.0 × 10 ⁶ cells per vial	4.1 × 10 ⁶ cells per vial
Post-Freeze Viability	≥ 50%	62.5%
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ³ 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

¹Seed material tested using Anti-ACE2 mouse monoclonal antibody (Proteintech®, 66699-1-Ig)

²Seed material tested using Anti-TMPRSS2 mouse monoclonal antibody (Millipore®, MABF2158-25ug)

³Atlas, 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
(Seed material)

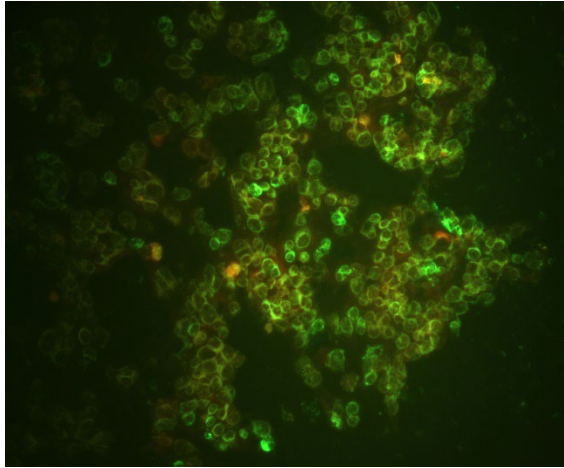
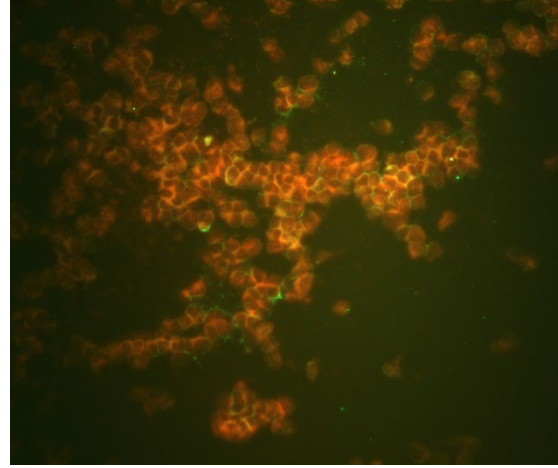


Figure 2: IFA for Confirmation of TMPRSS2 Expression
(Seed material)



/Sonia Bjorum Brower/
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