

Certificate of Analysis for NR-54970

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: 70050994 Manufacturing Date: 09MAR2022

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	6.1 × 10 ⁶ cells per vial
Post-Freeze Viability	≥ 50%	86.9%
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic³ 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
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-lg)

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

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



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Figure 1: IFA for Confirmation of ACE2 Expression (Seed material)

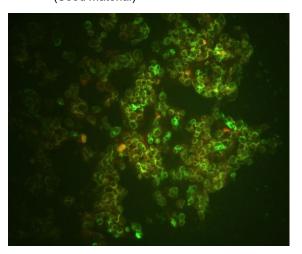
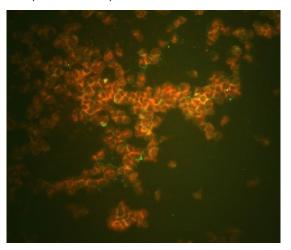


Figure 2: IFA for Confirmation of TMPRSS2 Expression (Seed material)



/Heather Couch/ Heather Couch

13 MAY 2022

Program Manager or designee, ATCC Federal Solutions

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