

iTIME.219, Inducible Telomerase-Immortalized Endothelial Cells Infected with Recombinant Kaposi's Sarcoma-Related Herpesvirus

Catalog No. NR-56694

This reagent is the tangible property of the U.S. Government.

Product Description:

TIME.219 is an inducible telomerase-immortalized endothelial (iTIME) cell line infected with Kaposi's sarcoma-associated herpesvirus (KSHV) engineered to maintain the recombinant reporter virus rKSHV.219 in the latent phase and transition to lytic replication and infectious virus release upon induction by a KSHV-specific stimulus. Latent-phase rKSHV.219 is measurable through constitutive expression of enhanced green fluorescent protein (eGFP). Activation of lytic-phase rKSHV.219 is signaled through expression of red fluorescent protein (RFP).

Lot: 70055217

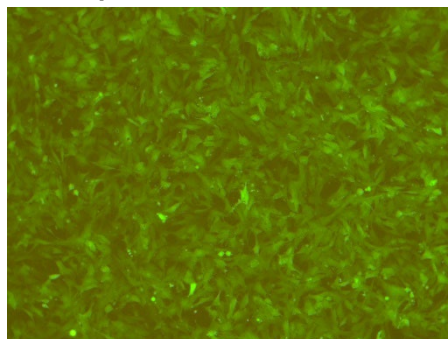
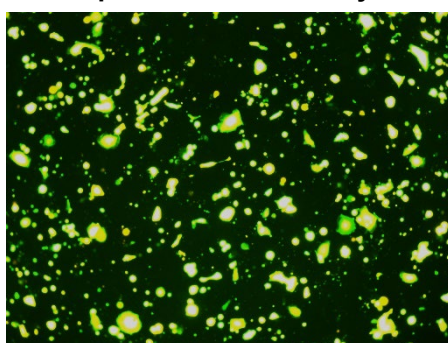
Manufacturing Date: 11OCT2022

BEI Resources is committed to ensuring digital accessibility for people with disabilities. This Certificate of Analysis contains complex tables and may not be fully accessible. Please let us know if you encounter accessibility barriers and a fully accessible document will be provided: E-mail: Contact@BEIResources.org. We try to respond to feedback within 24 hours.

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology	Endothelial	Endothelial
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	Human origin No evidence of another species	Human origin No evidence of another species
Short Tandem Repeat (STR) Analysis	Consistent with reference profile (TIME, ATCC® CRL-4025™)	Consistent with reference profile (TIME, ATCC® CRL-4025™)
Total Cell Count	> 1.0 × 10 ⁶ cells per vial	3.4 × 10 ⁶ cells per vial
Post-Freeze Viability	≥ 50%	50.2%
Phenotypic Analysis eGFP expression in latent-phase rKSHV.219 RFP expression in lytic-phase rKSHV.219 ¹	eGFP expression RFP expression	eGFP expression (Figure 1) RFP expression (Figure 2)
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ² 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 and 5% CO ₂	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

¹Activation of lytic phase rKSHV.219 through exposure to sodium butyrate or doxycycline. For more information, please refer to Dollery, S. J., et al. "iTIME.219: An Immortalized KSHV Infected Endothelial Cell Line Inducible by a KSHV-Specific Stimulus to Transition from Latency to Lytic Replication and Infectious Virus Release." *Front. Cell. Infect. Microbiol.* 11 (2021): 654396. PubMed: 33937098.)

²Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Figure 1: Expression of eGFP in Latent Phase**Figure 2: Expression of RFP in Lytic Phase**

/Sonia Bjorum Brower/

Sonia Bjorum Brower

Technical Manager, ATCC Federal Solutions

17 JAN 2023

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

