b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for HRP-20253

Human Cell Line, NSMCE2 Knockout CEM-SS

Catalog No. HRP-20253

Product Description:

HRP-20253 is a CEM-SS cell (human CD4 T-cell) line with the NSMCE2 (Non-Structural Maintenance of Chromosomes Element 2) component knocked out of the SMC5/6 complex. It is a suspension cell line. HRP-20253 lot 70057959 is preserved in 90% fetal bovine serum and 10% dimethyl sulfoxide (DMSO).

Lot: 70057959 **Manufacturing Date: 27JAN2023**

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Suspension	Suspension
Morphology	Round	Round
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	*Homo sapiens* origin	*Homo sapiens* origin
Total Cell Count	> 1.0×10^6 cells/vial	2.9×10^6 cells/vial
Post-Freeze Viability	≥ 50%	55%
Western Blot Analysis with SMC6 Antibody	No band present at ~ 30 kDa	No band present at ~ 30 kDa
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic[1]	No growth	No growth
Trypticase Soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Mycoplasma Contamination		
Hoechst DNA stain	None detected	None detected
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected

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

/Kenneth R. Crawford/
Kenneth R. Crawford 15 SEP 2026
Lead Technical Writer or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the manufacturer 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.

HIV REAGENT PROGRAM Support Provided by NIAID

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

© 2026 American Type Culture Collection (ATCC). All rights reserved.