



# CERTIFICATE OF ANALYSIS

**ATCC® Number:** CRL-3216™  
**Lot Number:** 70049877

**Name:** 293T  
**Description:** Embryonic Kidney Cells  
**Species:** Human (*Homo sapiens*)  
**Volume/Ampule:** Approximately 1 mL  
**Date Frozen:** 10MAR2022  
**Recovery:** A T-75 setup at a seeding density of  $5.0 \times 10^4$  viable cells/cm<sup>2</sup> reaches approximately 30-35% confluence in 1 day and 90-95% confluence in 3 days.  
**Product Format:** Cells cryopreserved in the appropriate cryopreservation medium  
**Expiration Date:** Not applicable  
**Storage Conditions:** Vapor phase of liquid nitrogen

Test / Method	Specification	Result
<b>Ampule passage number</b>	Report results	Unknown
<b>Population doubling level (PDL)</b>	Report results	Not applicable
<b>Total cells/ampule</b> (Cell count using Trypan Blue stain method)	Report results	$5.6 \times 10^6$ total cells/ampule
<b>Post-freeze viability</b> (Cell count using Trypan Blue stain method)	≥ 50.0%	95.1%
<b>Growth properties</b> (Visual observation method)	Adherent	Adherent
<b>Morphology</b> (Visual observation method)	Epithelial-like*	Epithelial-like
<b>Test for mycoplasma contamination</b> Hoechst DNA stain (indirect) method Agar culture (direct) method PCR-based assay	None detected None detected None detected	None detected None detected None detected
<b>Species determination: COI assay (interspecies)</b>	Human	Human

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<b>Species determination: STR analysis (intraspecies)</b>	<b>Human (Unique DNA Profile)</b> TH01: 7, 9.3 D5S818: 8, 9 D13S317: 12, 14 D7S820: 11 D16S539: 9, 13 CSF1PO: 11, 12 Amelogenin: X vWA: 16, 19 TPOX: 11	<b>Human (Unique DNA Profile)</b> TH01: 7, 9.3 D5S818: 8, 9 D13S317: 12, 14 D7S820: 11 D16S539: 9, 13 CSF1PO: 11, 12 Amelogenin: X vWA: 16, 19 TPOX: 11
<b>Sterility test (BacT/ALERT 3D)</b> iAST bottle (aerobic) at 32.5°C iNST bottle (anaerobic) at 32.5°C	No growth No growth	No growth No growth
<b>Human pathogenic virus testing</b> (PCR-based assay for HIV, HepB, HPV, EBV, and CMV)	Report results	HIV – None detected HepB – None detected HPV – None detected EBV – None detected CMV – None detected

\* Epithelial-like: Any adherent cells of a polygonal shape with clear, sharp boundaries between them.

**Product meets European Union requirements for production of technical blood products.**

Quality Assurance Specialist; Quality Assurance

ATCC hereby represents and warrants that the material provided under this certificate is pure and 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 correct to the best of the company's knowledge and belief. This certificate does not extend to the growth and/or passage of any living organism or cell line beyond what is supplied within the container received from ATCC.

This product is intended to be used for laboratory research use only. It is not intended for use in humans, animals, or for diagnostics. Appropriate Biosafety Level (BSL) practices should always be used with this material. Refer to the Product Information Sheet for instructions on the correct use of this product.

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