



## CERTIFICATE OF ANALYSIS

**ATCC® Number:** CRL-2302™  
**Lot Number:** 63478793

**Name:** ARPE-19  
**Description:** Retinal Epithelium  
**Species:** Human (*Homo sapiens*)  
**Volume/Ampule:** Approximately 1 mL  
**Date Frozen:** 13AUG2015  
**Recovery:** A T-75 setup at a dilution of 1:15 reaches approximately 75% 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
Ampule passage number	Report results	19
Population doubling level (PDL)	Report results	Not applicable
Total cells/ampule (Cell count using Trypan Blue stain method)	Report results	$8.7 \times 10^5$ total cells/ampule
Post-freeze viability (Cell count using Trypan Blue stain method)	$\geq 50.0\%$	89.9%
Growth properties (Visual observation method)	Adherent	Adherent
Morphology (Visual observation method)	Epithelial-like *	Epithelial-like
Test for mycoplasma contamination Hoechst DNA stain (indirect) method Agar culture (direct) method PCR-based assay	None detected None detected None detected	None detected None detected None detected
Species determination: COI assay (interspecies)	Human	Human

ATCC  
10801 University Boulevard  
Manassas, VA 20110-2209 USA  
www.atcc.org

800-638-6597 or 703-365-2700  
Fax: 703-365-2750  
E-mail: tech@atcc.org  
or contact your local distributor



## CERTIFICATE OF ANALYSIS

ATCC® Number: CRL-2302™

Lot Number: 63478793

<b>Species determination: STR analysis (intraspecies)</b>	<b>Human (Unique DNA Profile)</b> TH01: 6, 9.3 D5S818: 13 D13S317: 11, 12 D7S820: 9, 11 D16S539: 9, 11 CSF1PO: 11 Amelogenin: X, Y vWA: 16, 19 TPOX: 9, 11	<b>Human (Unique DNA Profile)</b> TH01: 6, 9.3 D5S818: 13 D13S317: 11, 12 D7S820: 9, 11 D16S539: 9, 11 CSF1PO: 11 Amelogenin: X, Y vWA: 16, 19 TPOX: 9, 11
<b>Sterility test (BacT/ALERT 3D)</b> iAST bottle (aerobic) at 32°C iNST bottle (anaerobic) at 32°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.

### 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.

ATCC products may not be resold, modified for resale, used to provide commercial services, or to manufacture commercial products without prior written agreement from ATCC.

© 2014 American Type Culture Collection. The ATCC trademark and trade name are owned by the American Type Culture Collection.

ATCC  
10801 University Boulevard  
Manassas, VA 20110-2209 USA  
www.atcc.org

800-638-6597 or 703-365-2700  
Fax: 703-365-2750  
E-mail: tech@atcc.org  
or contact your local distributor