



CERTIFICATE OF ANALYSIS

ATCC® Number: CRL-3243™
Lot Number: 64334159

Name: HMEC-1
Description: Dermal Endothelium
Species: Human (*Homo sapiens*)
Volume/Ampule: Approximately 1 mL
Date Frozen: 12SEP2016
Recovery: A T-75 setup at a seeding density of 2.0×10^4 viable cells/cm² reaches approximately 40% confluence in 1 day.
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	22
Population doubling level (PDL)	Report results	Not applicable
Total cells/ampule (Cell count using Trypan Blue stain method)	Report results	2.7×10^6 total cells/ampule
Post-freeze viability (Cell count using Trypan Blue stain method)	≥ 50.0%	95.5%
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

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Species determination: STR analysis (intraspecies)	Human (Unique DNA Profile) TH01: 7 D5S818: 12 D13S317: 11, 12 D7S820: 8, 10 D16S539: 11, 12 CSF1PO: 10, 12 Amelogenin: X, Y vWA: 15, 17 TPOX: 8, 11	Human (Unique DNA Profile) TH01: 7 D5S818: 12 D13S317: 11, 12 D7S820: 8, 10 D16S539: 11, 12 CSF1PO: 10, 12 Amelogenin: X, Y vWA: 15, 17 TPOX: 8, 11
Sterility test (BacT/ALERT 3D) iAST bottle (aerobic) at 32°C iNST bottle (anaerobic) at 32°C	No growth No growth	No growth No growth
Human pathogenic virus testing (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

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