PRODUCT DATA SHEET

iPSC-Derived Endothelial Cells With Media

(Normal, Male, African American, Neonate, From ASE-9211)

Catalog No. ASE-9744 RUO • Rev. 1 I August 2026

Product Overview

Applied StemCell has developed an efficient integration-free, small molecule-based method to differentiate high-quality endothelial cells from human iPSCs. The differentiated cells recapitulate key phenotypic and functional characteristics of primary and in vivo endothelial cells. ASE-9744-1 contains cryopreserved endothelial cells differentiated from the integration-free control human iPSC line ASE-9211, reprogrammed from dermal fibroblasts of an African-American male donor. These high-purity (≥90%) cells express the endothelial biomarkers CD144 and CD31 (Figure 1). Optimized Endothelial Cell Culture Media (ASE-9744MM) supports robust recovery, maintenance, and functionality in culture.

Key Features & Benefits

Feature	Benefit
Ready-to-use format	Reduces differentiation setup time and supports faster experimental starts.
High purity (≥90%)	Supports consistent, interpretable assay performance.
Defined donor background	Enables traceable use in disease modeling and comparative studies.
Marker-confirmed phenotype	Documents endothelial identity through CD144 and CD31 expression.
Matched culture reagents	Supports recovery, maintenance, and reproducible cell performance.

Product Specifications

Product Type	RUO
Cell Type	Human iPSC-derived endothelial cells
Parental Line / Background	Control human iPSC line ASE-9211; age: neonate; gender: male; ethnicity: African-American; tissue source: dermal fibroblasts; reprogramming: episomal; culture: feeder-free.
Genetic Background	No engineered edits specified in source documentation.
Integration System	Not applicable for this iPSC-derived cell product.
Payload Capacity	Not applicable.
Format	Cryopreserved cell kit
Storage	Cells: liquid nitrogen; culture medium: -20°C.
Shelf Life	See lot-specific CoA / component labeling.

Applications

- Vascular biology and angiogenesis studies
- Endothelial phenotype and function studies
- Disease modeling and comparative studies
- Drug discovery, screening, and vascular toxicity studies

Quality Control Summary

Each lot is released against the following quality criteria. Lot-specific results are provided on the accompanying Certificate of Analysis (CoA).

- Post-thaw viability, recovery, and growth
- Cell purity: ≥90%
- Phenotype / identity markers: CD144 and CD31
- Mycoplasma and pathogen testing

Supporting Data

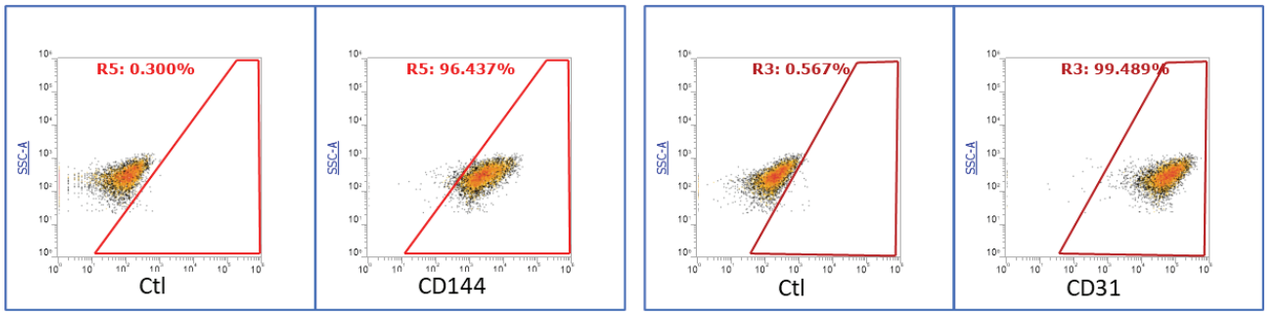


Figure 1. Flow-cytometry characterization of ASE-9744 iPSC-derived endothelial cells differentiated from the human iPSC control line ASE-9211. The cells show high expression of the endothelial markers CD144 and CD31 relative to their respective controls.

Kit Components

Item	Component	Format	Quanity
ASE-9744-C	iPSC-Derived Human Endothelial Cells; African-American Male Line	Cells	≥1 × 10^6 cells/vial
ASE-9744MM	Endothelial Cell Culture Media	Media	100 mL

Ordering Information

Catalog No.	ASE-9744
Description	iPSC-Derived Human Endothelial Cells Kit; African-American Male Line
Format	Kit
Pack Size	1 each

Contact & Ordering

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Ready to accelerate your genome engineering project?

Scan the QR code or visit our website to explore product details, access technical resources, discover related TARGATT™ solutions, and request a consultation with our scientific team.

Product Use & Storage

For research or further manufacturing purposes only. Store each component immediately upon receipt under the conditions shown above. Shelf life is contingent on proper storage; refer to component labeling and the lot-specific CoA.

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