Applied StemCell

PRODUCT DATA SHEET

Human iPSCs from PBMCs

(Normal, Female, Caucasian, Adult)

Catalog No. ASE-9217 RUO • Rev. 1 I August 2026

Product Overview

Control Human Induced Pluripotent Stem cells (iPSCs) at low passage (p8) provided by Applied StemCell Inc. This iPSC line was generated from normal Peripheral Blood Mononuclear Cells (PBMCs) using a Sendai virus method. This method allows the expression of human transcription factors (Oct-4, Sox-2, KLF4, and c-MYC) that initiate the reprogramming process. The resulting induced pluripotent cells were selected using morphological criteria without the use of either fluorescent markers or drug selection.

Key Features & Benefits

Feature	Benefit
Ready-to-use format	Reduces differentiation setup time and supports faster experimental starts.
Characterized cell identity	Supports consistent, interpretable assay performance.
Defined donor background	Enables traceable use in disease modeling and comparative studies.
Marker-confirmed phenotype	Provides documented identity and quality for each released lot.
Matched culture reagents	Supports recovery, maintenance, and reproducible cell performance.

Product Specifications

Product Type	RUO
Cell Type	Human iPSC cells
Parental Line / Background	PBMCs (Normal, Female, Adult)
Format	Cryopreserved cells.
Quantity	1 x 10^6 cells/ vial
Storage	Store components as labeled.
Shelf Life	See lot-specific CoA / component labeling.

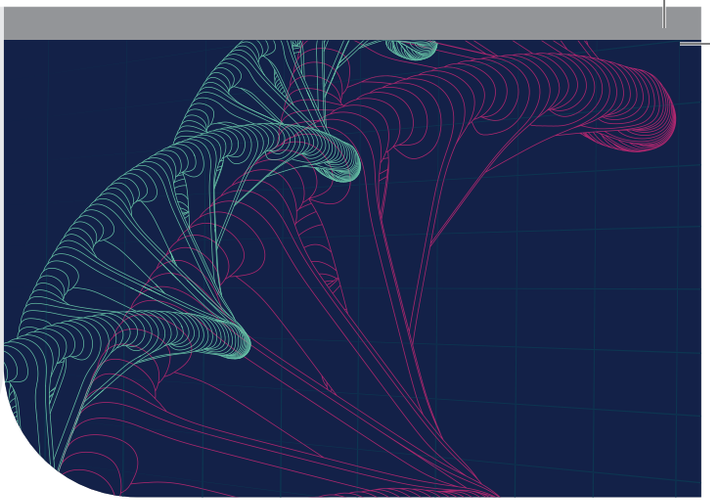
Applications

- Cell biology research
- Disease modeling
- Assay development
- Drug discovery and screening

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 and recovery/growth
- Phenotype / identity markers:
  Oct-4, Sox-2, SSEA-4, for normal female karyotype
- Karyotype
- Mycoplasma and microbial/pathogen testing
- Post-thaw viability



Supporting Data

Morphology Analysis

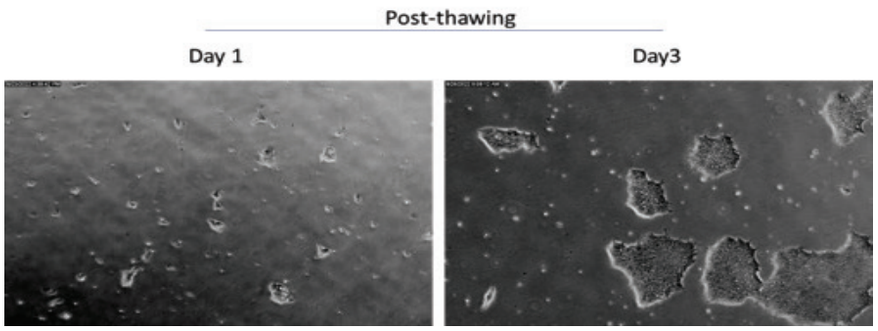


Figure 1. Morphology images of the ASE-9217 iPSC line captured post thaw (Day 1 and 3). The control human iPSCs were generated from normal PBMCs using a Sendai virus method. The image on the left was taken on day 1 and the image on the right was captured day 3 post thaw.

Pluripotency Marker Analysis

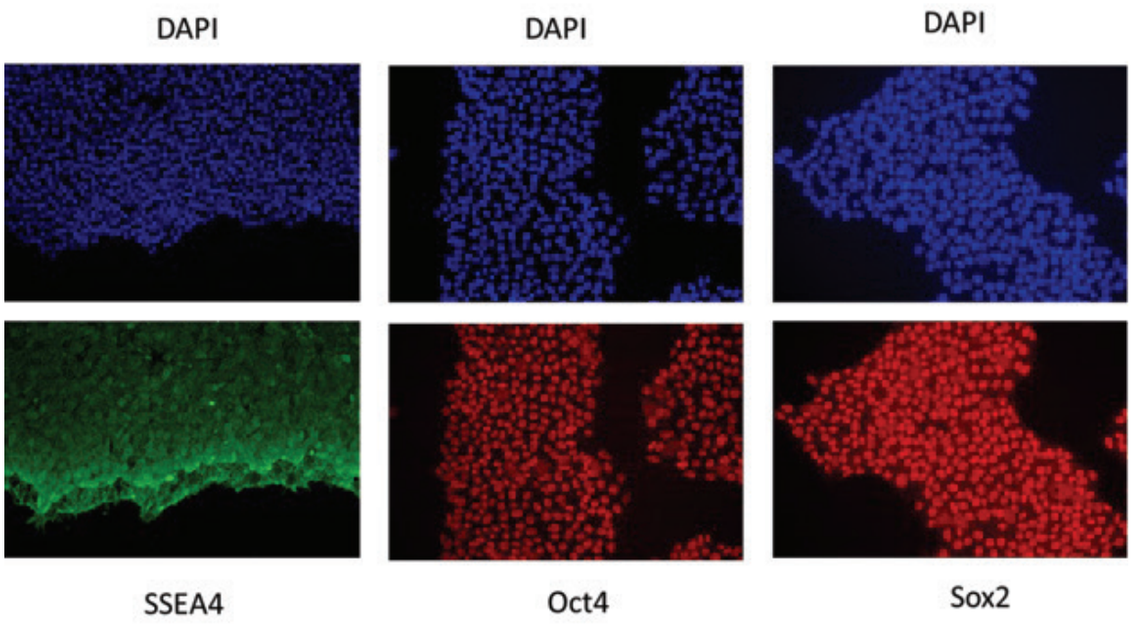


Figure 2. Expression of pluripotency markers. ASE-9217 iPS cell line expresses common iPSC biomarkers (bottom row: SSEA4, Oct4, and Sox2). Top row: corresponding DAPI nuclear staining.

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Supporting Data

Karyotype Analysis

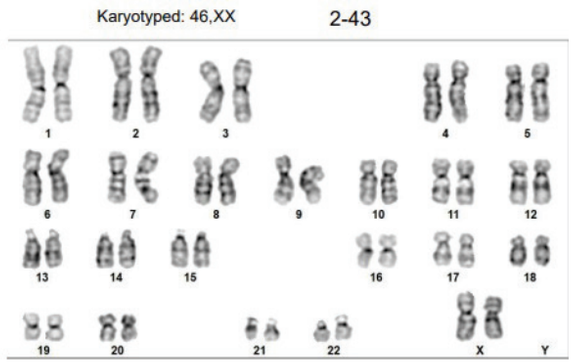


Figure 3. Karyotype analysis to rule out genetic aberrations. The G-banded chromosome analysis of metaphase ASE-9217 cells demonstrates a normal female karyotype.

Directed Differentiation into Germ Layers

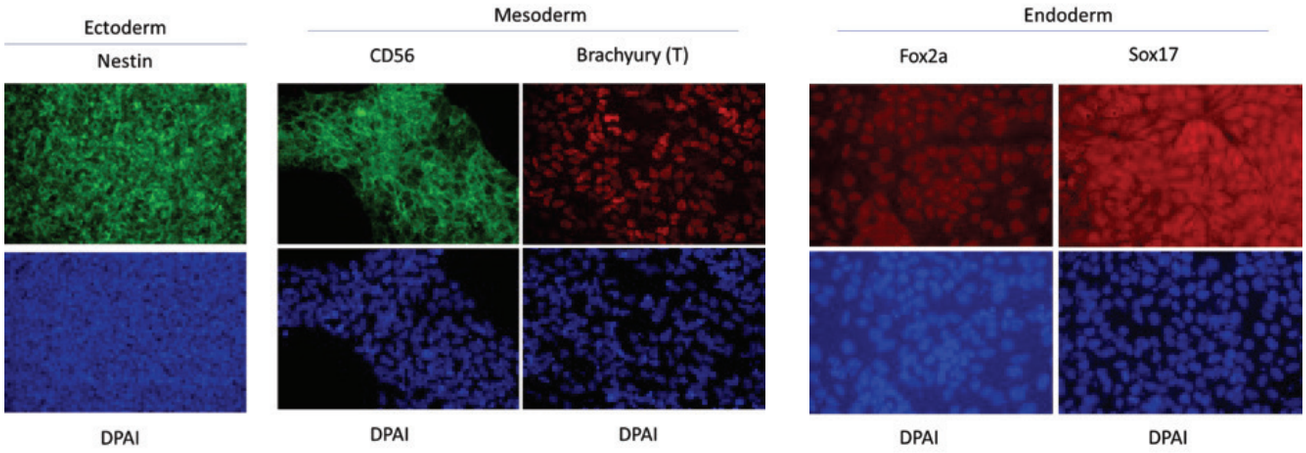


Figure 4. Direct differentiation of ASE-9217 to three germ layers. The ASE-9217 hiPSC line was differentiated to specific lineages of the germ layers using well-established and optimized protocols. Immunostaining for biomarkers of each lineage was performed to confirm lineage commitment. Cells were also co-stained with nuclear marker, DAPI (blue). Ectoderm (EC) marker: Nestin (green); Mesoderm (ME) markers: CD56 (green) and Brachyury (T) (red); Endoderm (EN) markers: Fox2a (red) and Sox17 (red).

Ordering Information

Catalog No.	ASE-9217
Description	Human iPSCs (from Normal, Female, PBMCs))
Format	Cells
Pack Size	1.0×10^6 cells/vial

Related Products

- ASE-9211 – Control human iPSC line (African-American male)
- Contact Applied StemCell for compatible media and related cell models.

Contact & Ordering

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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.

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