SDS

Gibco™

StemFlex™ Medium

Gibco™ StemFlex™ Medium supports the robust expansion of feeder-free pluripotent stem cells (PSCs) and is optimized to support novel

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applications, including single-cell passaging, gene editing, and reprogramming. StemFlex Medium's unique formulation offers the convenience of a flexible feeding schedule (including weekend-free options) and also the ability to choose the matrix and passaging reagent that best suits specific applications. StemFlex Medium enables the long term feeder-free culture of PSCs without karyotypic abnormalities and maintains the cells' ability to differentiate into all three germ layers.

Superior results
StemFlex Medium is formulated to deliver superior outcomes in today's more-challenging applications that stress PSC cultures, such as reprogramming, single cell passaging, and gene editing. StemFlex Medium provides superior cell survival compared to the leading competitor (mTeSR1), allowing for greater success in the most relevant cell types.

Flexibility
StemFlex Medium allows for unprecedented 3-way usage flexibility for PSC culture conditions: the ability to select an optimal feeding schedule, including a weekend-free option; a choice of matrices, depending upon the needs of the workflow; and the option to select the passaging reagent for the level of cell dissociation required.

Exceptional value and performance
StemFlex Medium is provided in a convenient two-component kit (450 mL basal medium & 50 mL supplement), and when used with Geltrex™ LDEV-Free, hESC-Qualified, Reduced Growth Factor Basement Membrane Matrix, provides a cost-effective, robust system for superior feeder-free culture of human PSCs. StemFlex Medium's ability to enable weekend-free culture of PSCs provides unmatched value among the robust feeder-fee PSC media on the market today.

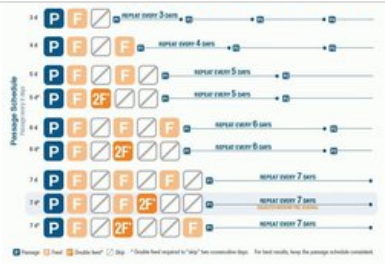
For Research Use Only. Not for use in diagnostic procedures.

Specifications

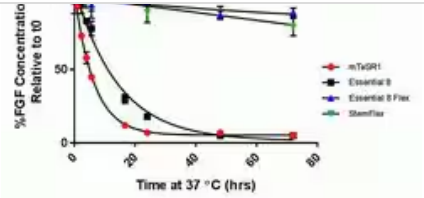
Cell Type	Embryonic Stem Cells, , Induced Pluripotent Stem Cells
Culture Type	Feeder-free Stem Cell Culture (Human, iPS - Induced Pluripotent Stem, Embryonic)
Product Type	Stem Cell Media
With Additives	Phenol Red
Manufacturing Quality	cGMP for medical devices, 21 CFR Part 820 and ISO 13485
Product Line	StemFlex™
Quantity	500 mL
Shipping Condition	Supplement ships on dry ice, basal can ship at RT
Unit Size	500 mL

Contents & Storage

- 450 mL Basal Medium, store at 2–8°C and protect from light
- 50 mL Supplement, store at -5 to -20°C and protect from light



StemFlex passaging schedules



Improved FGF2 activity in StemFlex cultures

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Application Notes

- Application Note: Genome editing of pluripotent stem cells cultured in StemFlex Medium via electroporation and lipid-based transfection
- Application Note: Superior performance for today's most challenging stem cell applications—Summary of reprogramming, adaptation, differentiation, and gene editing applications
- Application Note: Genome editing of pluripotent stem cells cultured in StemFlex Medium via electroporation and lipid-based transfection
- Application Note: Adaptation of pluripotent stem cells to StemFlex Medium
- Application Note: CRISPR-Cas9 editing of pluripotent stem cells cultured in StemFlex Medium
- Application Note: Reprogramming of somatic cells to iPSCs using the CytoTune-iPS 2.0 kit with feeder-free media systems

Posters

- Poster: Facilitated genome editing in human IPSC to advance disease modeling and screening
- Development of a Robust Next Generation Feeder-Free Pluripotent Stem Cell Medium
- Poster: Gene editing and modulation tools for long non-coding RNA applications
- New tools for improving the genome editing workflow in human iPSC applications
- Posters: Power Of Stem Cells

Brochures

- Pluripotent Stem Cell Product Guide
- Application Note: Differentiation of pluripotent stem cells cultured in StemFlex Medium

Flyers

- Flyer: Gibco Pluripotent Stem Cell (PSC) Gene Editing Demo Kit

Product Information

User Bulletin: CRISPR-Cas9 Genome Editing for Research of Human Pluripotent Stem Cells Cultured in StemFlex Medium via Electroporation

Product Information

Application Note: Reprogramming of somatic cells to iPSCs using the CytoTune-iPS 2.0 kit with feeder-free media systems

Limited Use Label Licenses (LULL)

License #297 - Media for Stem Cell Culture

Frequently asked questions (FAQs)

What media do you recommend for standard single-cell cloning of iPSCs?

Do I need to use ROCK inhibitor during single-cell passaging in StemFlex Medium?

I currently use mTeSR1. How difficult would it be to adapt my cells to the StemFlex Medium system?

I am interested in using StemFlex Medium in somatic cell reprogramming. What protocol should I follow for human fibroblasts?

What protocol is recommended for delivery of Cas9 protein:guide RNA complex to my PSCs cultured in StemFlex Medium?

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Citations & References (10)

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Citations & References

Abstract

Single-Cell Profiling Identifies Key Pathways Expressed by iPSCs Cultured in Different Commercial Media.

Authors: Daniszewski M, Nguyen Q, Chy HS, Singh V, Crombie DE, K[illegible]arni T, Liang HH, Sivakumaran P, Lidgerwood GE, Hernández D, [illegible]est A, Rooney LA, Chevalier S, Andersen SB, Senabouth A,

'We assessed the pluripotency of human induced pluripotent stem cells (iPSCs) maintained on an automated platform using StemFlex and TeSR-E8 media. Analysis of transcriptome of single cells revealed similar expression of core pluripotency genes, as well as genes associated with naive and primed states of pluripotency. Analysis of individual cells ... M

Improving single-cell cloning workflow for gene editing in human pluripotent stem cells.

Authors: Chen YH, Pruett-Miller SM

Journal: Stem Cell Res

PubMed ID: 30099335

'The availability of human pluripotent stem cells (hPSCs) and progress in genome engineering technology have altered the way we approach scientific research and drug development screens. Unfortunately, the procedures for genome editing of hPSCs often subject cells to harsh conditions that compromise viability: a major problem that is compounded by ... More

Detection of Deleterious On-Target Effects after HDR-Mediated CRISPR Editing.

Authors: Weisheit I, Kroeger JA, Malik R, Klimmt J, Crusius D, Dannert A, Dichgans M, Paquet D

Journal: Cell Rep

PubMed ID: 32460021

'CRISPR genome editing is a promising tool for translational research but can cause undesired editing outcomes, both on target at the edited locus and off target at other genomic loci. Here, we investigate the occurrence of deleterious on-target effects (OnTEs) in human stem cells after insertion of disease-related mutations by ... More

Modulation of hepatitis B virus infection by epidermal growth factor secreted from liver sinusoidal endothelial cells.

Authors: Chen SW, Himeno M, Koui Y, Sugiyama M, Nishitsuji H, Mizokami M, Shimotohno K, Miyajima A, Kido T

Journal: Sci Rep

PubMed ID: 32873852

'Hepatocytes derived from human iPSCs are useful to study hepatitis B virus (HBV) infection, however infection efficiency is rather poor. In order to improve the efficiency of HBV infection to iPSC-derived hepatocytes, we set a co-culture of hepatocytes with liver non-parenchymal cells and found that liver sinusoidal endothelial cells (LSECs) ... More

A Simple Procedure for Creating Scalable Phenotypic Screening Assays in Human Neurons.

Authors: Sridharan B, Hubbs C, Llamosas N, Kilinc M, Singhera FU, Willems E, Piper DR, Scampavia L, Rumbaugh G, Spicer TP

Journal: Sci Rep

PubMed ID: 31227747

'Neurons created from human induced pluripotent stem cells (hiPSCs) provide the capability of identifying biological mechanisms that underlie brain disorders. IPSC-derived human neurons, or iNs, hold promise for advancing precision medicine through drug screening, though it remains unclear to what extent iNs can support early-stage drug discovery efforts in industrial-scale ... More

10 total citations

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