

For your precious cells

# StemSure® hPSC Medium Δ

This product is a serum-free, animal-component-free medium that supports the culture of human pluripotent stem cells (hPSCs) under feeder-free conditions.

## Features

<b>01</b> Simple formulation for consistent quality	<b>04</b> Feeder-free, serum-free media for culturing hPSCs
<b>02</b> 100 mL size for easy use	<b>05</b> High cell proliferation potential
<b>03</b> No animal-derived ingredients	<b>06</b> Maintains potential of differentiate into all three germ layers



## Application

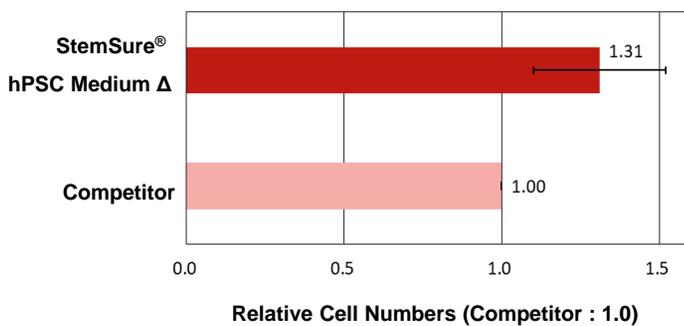
- Maintains undifferentiated state of hPSCs with bFGF addition (recommended concentration: 35–100 ng/mL).
- Enhances culture efficiency by adding Y-27632 and CEPT Cocktail during passaging.
- Works well with various culture vessel surface coating reagents, such as Matrigel®, iMatrix-511, and vitronectin.

## Quality Control Testing

- Practical testing (using human iPS cell)
- Sterility testing
- pH
- Osmolality
- Endotoxin test
- Mycoplasma negative test

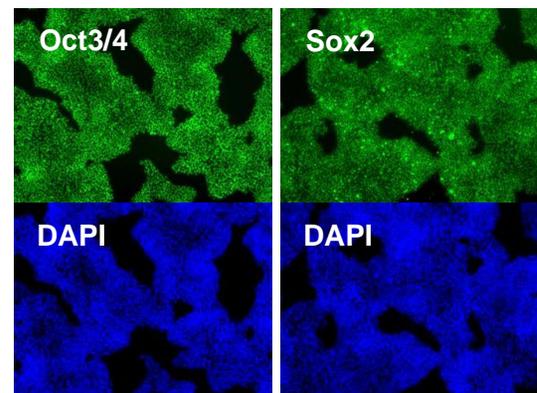
## Data

### Cell Proliferation Ability



Cell strain	human iPSC (201B7 strain)
Medium	StemSure® hPSC Medium Δ containing 35 ng/mL bFGF
Coating reagent	Matrigel® hESC-Qualified Matrix
Number of seeded cells	1 × 10 <sup>5</sup> cells/well (6-well plate)
Duration of culture	5 days

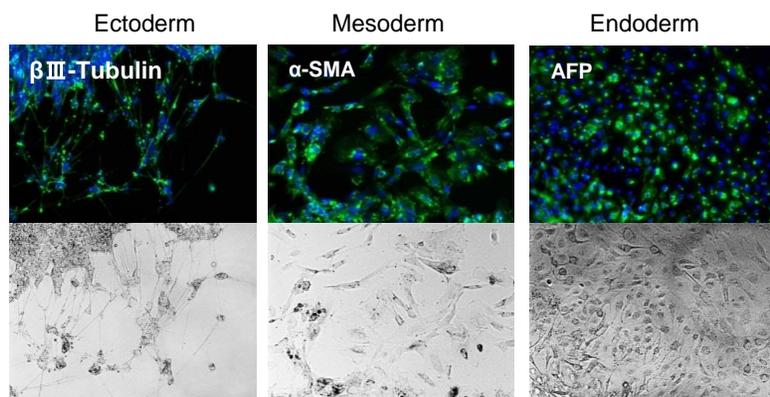
### Maintenance of Undifferentiated State



※Oct3/4 and Sox2 are undifferentiated markers.

**High cell proliferation potential, cell morphology, and maintenance of the undifferentiated state have been confirmed.**

## Differentiation into Three Germ Layers



Human iPS cells (201B7 strain) cultured for three passages in StemSure® hPSC Medium Δ were adapted to differentiation medium. After embryoid body formation, differentiation into the three germ layers was confirmed by the expression of βIII-Tubulin, α-SMA, and AFP.

**Cell strain : human iPSC (201B7 strain)**

The maintenance of differentiation potential into these germ layers has been confirmed.

Wako Cat. No	Product Name	Storage Condition	Grade	Pkg. Size
286-47109	StemSure® hPSC Medium Δ	Keep at -20°C	for Cell Culture	100 mL

For details, please visit our website.

<https://labchem-wako.fujifilm.com/us/category/00556.html>

## Related Products

Wako Cat. No	Product Name	Storage Condition	Grade	Pkg. Size
064-05381	Fibroblast Growth Factor (basic), Human, recombinant, Animal-derived-free(154aa) 【bFGF/FGF2/FGF basic】	Keep at -20°C	For Cellbiology	50 µg
068-05384				100 µg
060-05383				1 mg
033-26071	CultureSure™ CEPT Cocktail (1,000×)	Keep at -20°C	For Cell Culture	300 µL
030-24021	CultureSure® Y-27632	Keep at -20°C	For Cell Culture	1 mg
036-24023				5 mg
034-24024				25 mg
030-24026				100 mg
039-24591	CultureSure® 10 mmol/L Y-27632 Solution, Animal-derived-free	Keep at -20°C	For Cell Culture	300 µL
035-24593				1 mL
252-00701	Y-27632 (GMP-compliant)	Keep below 25°C	For Cell Culture	5 mg
258-00703				25 mg

For details, please visit our website.

<https://labchem-wako.fujifilm.com/us/category/00564.html>

Listed products are intended for laboratory research use only, and not to be used for drug, food or human use. Please visit each region's website for product information. This leaflet may contain products that cannot be exported to your country due to regulations. Bulk quote requests for some products are welcomed. Please contact us.

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