



For the further development of stem cell research

CultureSure™ CEPT Cocktail (1,000×)

CEPT is a cocktail of small molecules developed at the National Institutes of Health (NIH). It contains four components, and CEPT is an acronym for them: Chroman 1, Emricasan, Polyamines, and Trans-ISRIB. Compared to existing methods, CEPT also improves cell viability in stem cell research, including embryoid body and organoid formation, single cell cloning, and genome editing using hPSCs.¹⁻⁵⁾

*This product is manufactured and sold under license from NIH.

References

- 1) Chen, Y. et al.: Nat. Methods, 18 (5), 528 (2021).
- 2) Tristan, C.A. et al.: Stem Cell Reports, 16(12), 3076 (2021).
- 3) Tristan, C.A. et al.: Nat. Protoc., 18(1), 58 (2022).
- 4) Deng, T. et al.: Stem Cell Reports, 18(4), 1030 (2023).
- 5) Takeshi, W. et al.: Regen. Med., 18(3), 219 (2023).

Features

- Protects human ES/iPS cells from stresses including DNA damage, helping to maintain cell structure and function
- · Filter-sterilized, ready-to-use cocktail solution
- One of the CultureSure series products that are tested for endotoxin contamination and are mycoplasma negative

CultureSure In CPANO126 CEPT Cocktail (AN CEPT C

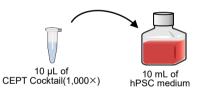
Analytical Data

- · Concentration (HPLC): Passed
- · Appearance: Liquid
- Endotoxin: Less than 3 EU/mL
- Tested for sterility
- Tested for negative mycoplasma contamination

How to Use

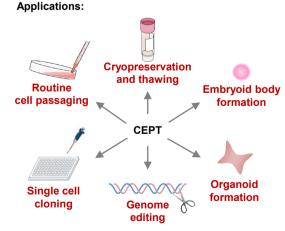
Add 1/1,000 volume of this product to the culture medium and mix thoroughly before use.

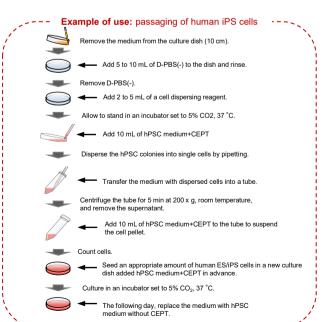
Note: To avoid repeated freezing and thawing, it is recommended to aliquot in small volumes



Samples and Applications

Samples: Human ES / iPS cells

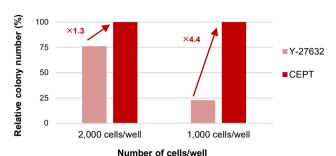




Wako Cat. No.	Product Name	Grade	Package Size
033-26071	CultureSure [™] CEPT Cocktail (1,000×)	for Cell Culture	300 μL

Performance data

Colony Formation Test



Cell strain	human iPS cell 201B7
Medium	StemSure $^{\scriptsize @}$ hPSC Medium Δ containing 35 ng/mL bFGF
Coating	Matrigel® hESC-Qualified Matrix
Duration of Culture	8 days
Additives	Y-27632 or CEPT was added at the time of seeding. Cells were cultured without the addition from the following day onward.

human iPS cell 201B7

35 ng/mL bFGF

7 days

StemSure® hPSC Medium Δ containing

Y-27632 or CEPT was added at the time of seeding. Cells were cultured without the addition

Matrigel® hESC-Qualified Matrix

5,000 cells/well (1well = 3.8 cm²)

from the following day onward.



When the number of cells seeded was small, more colonies were formed in the CEPT-supplemented cultures than in the Y-27632-supplemented cultures.

Cell strain

Medium

Coating

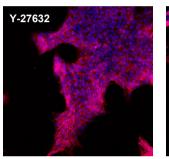
cells

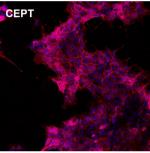
Additives

Number of seeded

Duration of Culture

Undifferentiated State Maintenance





RED: rBC2LCN-635 (human iPSC membrane stain)

BLUE : DAPI (nuclear stain)

Note: BC2LCN is a recombinant lectin with high affinity for cell surface glycans of human ES cells and human iPS cells



No difference in cell morphology was observed between the addition of CEPT and Y-27632. The undifferentiated state was also maintained.

Related Products

Wako Cat. No.	Product Name	Grade	Package Size
197-17571	StemSure® hPSC Medium Δ	for Cell Culture	100 mL
193-17573	Stemsure TIPSC Medium A		100 mL×4
064-05381		for Cell biology	50 µg
068-05384	Fibroblast Growth Factor (basic)(FGF-basic / bFGF / FGF2), Human, recombinant, Animal-derived-free(154aa)(powder)		100 µg
060-05383			1 mg

Listed products are intended for laboratory research use only, and not to be used for drug, food or human use. / Please visit FUJIFILM Wako Laboratory Chemicals site: https://labchem-wako.fujifilm.com/ / 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.

FUJIFILM Wako Laboratory Chemicals site https://labchem-wako.fujifilm.com



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