

CEPT Cocktail is highly cytoprotective in single cell cloning

CEPT is a cocktail of small molecules that exhibit cytoprotective effects when added to cell culture. It particularly excels under high-stress conditions such as single cell cloning. Our research focused on the efficacy of the CEPT Cocktail in single cell cloning of human iPS cells, using an automated cell dispensing machine.

Protocol

Medium

StemSure® hPSC MediumΔ
(+ 35 ng/mL bFGF)

Conditions

- ① No addition
- ② ROCK inhibitor (10 μmol/L Y-27632)
- ③ **CEPT Cocktail**

Thawing

Sorting

Colony count

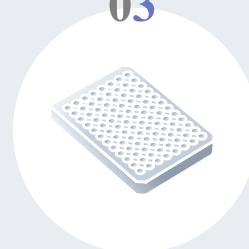
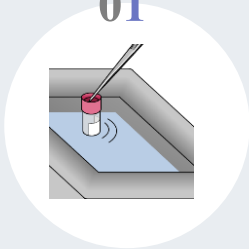
01

02

Day1

Day9

03

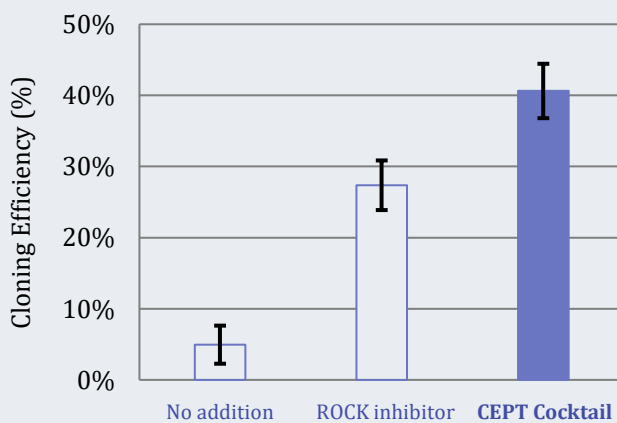


hiPSC
(201B7)

Uno Single Cell Dispenser™
(TECAN®)

Alkaline phosphatase stain
and count the number of wells
that have formed colonies.

Result



CEPT Cocktail was found to be remarkably effective under high-stress conditions, significantly increasing the cloning efficiency in single cell cloning.

Product information

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: **C**hroman 1, **E**mericasan, **P**olyamines, and **T**rans-ISRIB.

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 CultureSur™ series products that are **tested for endotoxin contamination and are mycoplasma negative**

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



Please check our website for more details.

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

Related Products

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

We also have many other reagents for regenerative medicine research. For details, please visit our website.

- Medium
- Cytokine / Growth Factor
- Small Molecules
- Stem Cell Detection / Removal etc.



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.

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1-2, Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan
Tel: +81 6 6203 3741 Fax: +81 6 6203 1999
ffwk-cservice@fujifilm.com

FUJIFILM Wako Chemicals U.S.A. Corporation
1600 Bellwood Road, Richmond, VA 23237, U.S.A.
Toll-Free (U.S. only): +1 877 714 1920
Tel: +1 804 271 7677 Fax: +1 804 271 7791
wkuslabchem@fujifilm.com

FUJIFILM Wako Chemicals (Hong Kong) Limited
Room 1111, 11/F, International Trade Centre, 11-19 Sha Tsui Road,
Tsuen Wan, N.T., Hong Kong
Tel: +852-2799-9019 Fax: +852-2799-9808
wkhk.info@fujifilm.com

FUJIFILM Wako Chemicals Europe GmbH
Fuggerstr 12, 41468 Neuss, Germany
Tel: +49 2131 311 0 Fax: +49 2131 311 100
labchem_wkeu@fujifilm.com

FUJIFILM Wako (Guangzhou) Trading Corporation
Room 3003, 30/F., Dong Shan Plaza 69, Xian Lie Zhong Road,
Guangzhou, 510095, China
Tel: +86-20-8732-6381(Guangzhou) Tel: +86-21-6288-4751(Shanghai)
Tel: +86-10-6413-6388(Beijing)
wkgz.info@fujifilm.com