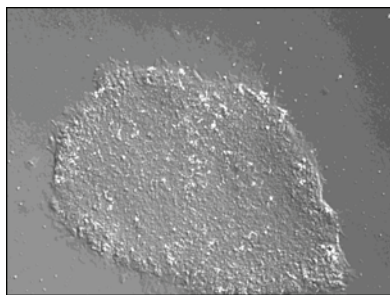
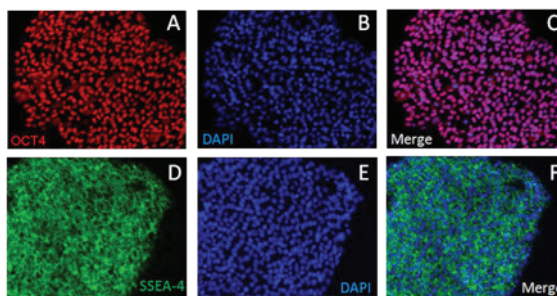


## NutriStem: hES/iPSC maintenance medium

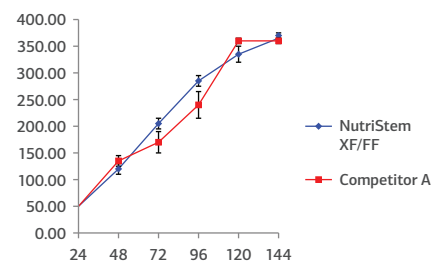


• Human H1 ES cell • Pa. 20

- Xeno-free
- High cloning efficiency
- Suitable for feeder-dependent and feeder-free cultures



Expression of pluripotency markers



Comparison of growth speed

### Publications

1. Moschidou D, et al. (2013) Human mid-trimester amniotic fluid stem cells cultured under embryonic stem cell conditions with valproic acid acquire pluripotent characteristics. *Stem Cells Dev.* 22(3):444-58.
2. Moschidou D, et al. (2012) Valproic acid confers functional pluripotency to human amniotic fluid stem cells in a transgene-free approach. *Mol Ther.* 20(10):1953-67.
3. Bergström R, et al. (2011) Xeno-free culture of human pluripotent stem cells. *Methods Mol Biol.* 767:125-36.
4. Lin G, Xu RH. (2010) Progresses and challenges in optimization of human pluripotent stem cell culture. *Curr Stem Cell Res Ther.* 5(3):207-14.

Product name	Cat #	Volume
NutriStem™ XF/FF Culture Medium	01-0005-100	100 ml
	100 ml	500 ml

## CryoStem: hES/iPSC cryopreservation

- Xeno-free
- High cloning viability and recovery

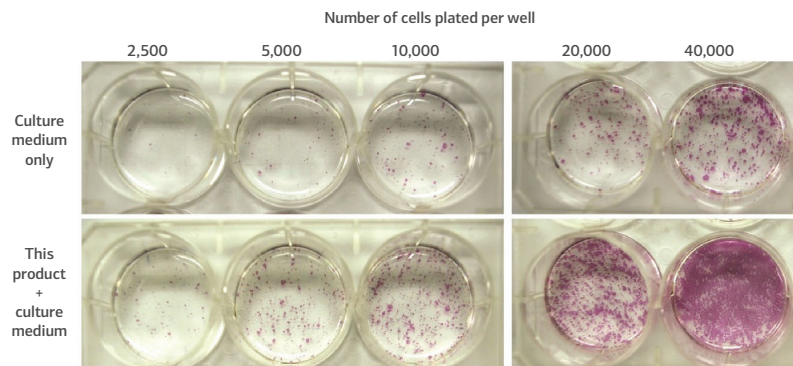
### Publications

1. Nishishita N, et al. (2012) Generation of virus-free induced pluripotent stem cell clones on a synthetic matrix via a single cell subcloning in the naïve state. *PLoS One.* 7(6):e38389.
2. Pistollato F, et al. (2012) Standardization of pluripotent stem cell cultures for toxicity testing. *Expert Opin Drug Metab Toxicol.* 8(2):239-57.

Product name	Cat #	Volume
NutriStem™ XF/FF Culture Medium	01-0013-50	50 ml

## hES Cell Cloning and Recovery Supplement

- Xeno-free
- Enhances cell attachment after passaging
- Increases single ES cell viability by more than 30 fold after thawing, dissociation and replating



Comparison of number of cells after treatment with trypsin (ALP staining): Number of hES cell (H1) was markedly increased by adding this product to culture medium (NutriStem) after treatment with trypsin

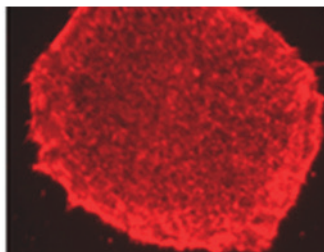
### Publications

1. Hubbard JJ, et al. (2014) Efficient iPSC Cell Generation from Blood Using Episomes and HDAC Inhibitors. *J Vis Exp.* (92).

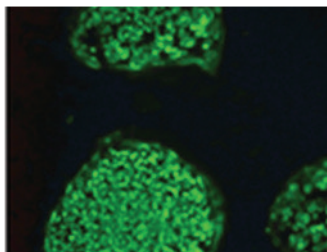
Product name	Cat #	Volume
hES Cell Cloning and Recovery Supplement	01-0014-500	5 x 100 µl

# StainAlive: Pluripotency markers for live human and mouse ES/ iPS Cells

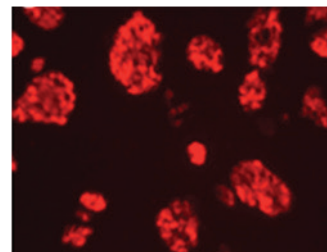
You can start observation after 40 min!



Stemgent StainAlive SSEA-4 DyLight 550 (Cat. No. 09-0097)



Stemgent StainAlive TRA-1-60 DyLight 488 (Cat. No. 09-0068)



Stemgent StainAlive SSEA-1 DyLight 550 (Cat. No. 09-0095)

Simple, safe and reliable verification of ES and iPS cells. ReproCELL offers other simple, cost-effective methods for characterizing pluripotency, including Alkaline Phosphatase Staining Kits and an extensive portfolio of antibodies.

## Publications

- Durruthy Durruthy J, Sebastiano V. (2014) Derivation of GMP-Compliant Integration-Free hiPSCs Using Modified mRNAs. *Methods Mol Biol.*
- Heng BC, Fussenegger M. (2014) Integration-Free Reprogramming of Human Somatic Cells to Induced Pluripotent Stem Cells (iPSCs) Without Viral Vectors, Recombinant DNA, and Genetic Modification. *Methods Mol Biol.* 1151:75-94.
- Polak U, et al. Selecting and Isolating Colonies of Human Induced Pluripotent Stem Cells Reprogrammed from Adult Fibroblasts. *J Vis Exp.* (60). pii: 3416.
- Tan HK, et al. (2014) Human Finger-Prick Induced Pluripotent Stem Cells Facilitate the Development of Stem Cell Banking. *Stem Cells Transl Med.* 3(5):586-98.
- Chen MJ, et al. (2014) Reprogramming Adipose Tissue-Derived Mesenchymal Stem Cells into Pluripotent Stem Cells by a Mutant Adeno-Associated Viral Vector. *Hum Gene Ther Methods.* 25(1):72-82.
- Athanasia D, et al. (2012) Retroviral Vector-Based Approaches for the Generation of Human Induced Pluripotent Stem Cells from Fibroblasts and Keratinocytes. *Springer Protocols Handbooks.* pp191-201

## List of antibodies for pluripotency markers

Inquiries: email [info\\_jp@reprocell.com](mailto:info_jp@reprocell.com)

	Product name	Cat #	Volume
For live cells	StainAlive™ SSEA-1 Antibody (DyLight™ 488), Mouse anti-Mouse/Human	09-0067	100 µl
	StainAlive™ SSEA-1 Antibody (DyLight™ 550), Mouse anti-Mouse/Human	09-0095	100 µl
	StainAlive™ SSEA-4 Antibody (DyLight™ 550), Mouse anti-Human	09-0097	100 µl
	StainAlive™ TRA-1-60 Antibody (DyLight™ 488), Mouse anti-Human	09-0068	100 µl
	StainAlive™ TRA-1-81 Antibody (DyLight™ 488), Mouse anti-Human	09-0069	100 µl
	StainAlive™ Mouse IgM, κ Isotype Control (DyLight™ 488)	09-0072	100 µl
For non-live cells	Stemgent® Alkaline Phosphatase Staining Kit	00-0009	50 assays
	Stemgent® Alkaline Phosphatase Staining Kit II	00-0055	50 assays
	Stemgent® Klf4 Antibody (Purified), Mouse anti-Mouse/Human	09-0021	100 µl
	Stemgent® Nanog Antibody (Affinity Purified), Rabbit anti-Mouse/Human	09-0020	100 µl
	Stemgent® Oct4 Antibody (Affinity Purified), Rabbit anti-Mouse/Human	09-0023	100 µl
	Stemgent® Pax6 Antibody (Purified), Rabbit anti-Mouse/Human	09-0075	100 µl
	Stemgent® Sox2 Antibody (Affinity Purified), Rabbit anti-Mouse/Human	09-0024	100 µl
	Stemgent® SSEA-1 Antibody (PE), Mouse anti-Mouse/Human	09-0001	1 ml
	Stemgent® SSEA-1 Antibody (Purified), Mouse anti-Mouse/Human	09-0005	100 µl
	Stemgent® SSEA-3 Antibody (PE), Rat anti-Human	09-0044	1 ml
	Stemgent® SSEA-3 Antibody (Purified), Rat anti-Mouse/Human	09-0014	100 µl
	Stemgent® SSEA-4 Antibody (PE), Mouse anti-Human	09-0003	1 ml
	Stemgent® SSEA-4 Antibody (Purified), Mouse anti-Human	09-0006	100 µl
	Stemgent® TRA-1-60 Antibody (PE), Mouse anti-Human	09-0009	1 ml
	Stemgent® TRA-1-60 Antibody (Purified), Mouse anti-Human	09-0010	100 µl
	Stemgent® TRA-1-81 Antibody (Purified), Mouse anti-Human	09-0011	100 µl
	Stemgent® Goat anti-Rabbit IgG Antibody (DyLight™ 488)	09-0034	200 µl



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