

Mouse iPS Cell Line

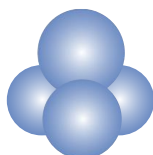
Product Descriptions

Mouse iPS cell line (induced pluripotent stem) cell line (Cat# iPS02M) was derived from mouse embryonic fibroblasts (MEFs) by retroviral expression of Oct3/4, Sox2, Klf4 and c-Myc genes. The cells were derived using morphological selection criteria and without the use of fluorescent marker or drug selection. When cultured under standard mouse ES cell culture conditions, the morphology of mouse iPSCs are identical to that of mouse ES cells. The cells also express the pluripotency markers SSEA-1 and Nanog, and demonstrate strong endogenous alkaline phosphatase activity. Mouse iPS cells are grown on a feeder layer of mouse embryonic fibroblasts (MEFs) and require the pretreatment of the plate with Gelatin.

Highlights

iPS02M cell lines generated by retroviral transduction are ideally suited for various research purpose including 1) differentiating various somatic cells or organoid models for phenotypic and target-based compound screening, 2) establishing genetically modified disease model through CRISPR/Cas. iPS02M has several features such as:

- Low passage and long-term viability
- Off the shelf - simple thaw the cells and plate them onto serum-free, feeder-free culture
- Homogeneity– Originated from a single iPSC clone



ALSTEM, INC

2600 Hilltop Drive, BLDG B, STE C328, Richmond, CA 94806

Tel: (510) 708-0096

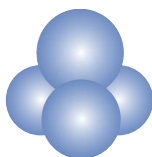
Fax: (866) 605-8766

www.alstembio.com

info@alstembio.com

Product Specification Sheet

Product Name	Mouse iPS Cell Line
Description	Mouse iPS cell line (induced pluripotent stem) cell line (Cat# iPS02M) was derived from mouse embryonic fibroblasts (MEFs) by retroviral expression of Oct3/4, Sox2, Klf4 and c-Myc genes. The cells were derived using morphological selection criteria and without the use of fluorescent marker or drug selection. When cultured under standard mouse ES cell culture conditions, the morphology of mouse iPSCs are identical to that of mouse ES cells. The cells also express the pluripotency markers SSEA-1 and Nanog and demonstrate strong endogenous alkaline phosphatase activity. Mouse iPS cells are grown on a feeder layer of mouse embryonic fibroblasts (MEFs) and require the pretreatment of the plate with Gelatin.
Catalog Number	iPS02M
Size	> 5x10 ⁵ cells/vial
Shipping	Dry ice
Storage and Stability	Store in vapor phase of liquid nitrogen immediately upon receipt. This product is stable for 12 months when stored as directed.
Quality Control	Mouse iPS cells were grown in mouse ES medium supplemented with 103 U/ml LIF. Each lot of mouse iPS cells is tested for growth and viability following recovery from cryopreservation. In addition, each lot is tested for expression of SSEA-1 and Nanog, as well as the activity of alkaline phosphatase.
Safety Precaution	ALSTEM highly recommends that protective gloves, a lab coat, and a full-face mask always are worn when handling frozen vials. It is important to note that some liquid nitrogen can leak into the vials when submersed in liquid nitrogen. Upon thawing, the liquid nitrogen returns to the gas phase, resulting in excessive pressure within the vial that can cause the vial to explode or expel the cap with dangerous force.
Restricted Use	For Research Use Only. Not for use in diagnostic or therapeutic procedures.



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