

Product Information

Mouse Stromal Vascular Fraction – brown fat (MSVF-bf)

Catalog Number	10MU-008	Cell Number	1 x 10 ⁶ cells/vial
Species	<i>Mus musculus</i>	Storage Temperature	Liquid Nitrogen

Description

Stromal Vascular Fraction (SVF) is isolated from adipose tissue and composed of very crude and heterogeneous mix of multiple cell populations with different degree of maturity and function (Fig 1).

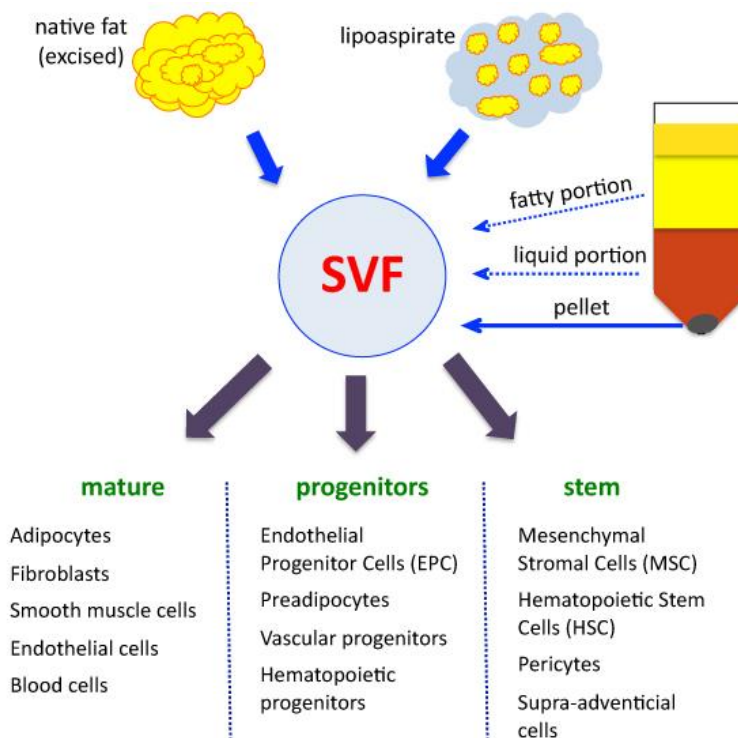


Fig 1.SVF cell composition

iXCells Biotechnologies provides high quality MSVF-bf, which are isolated from mouse interscapular brown fat and cryopreserved at P0, with >1 million cells in each vial. MSVF-bf are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi.

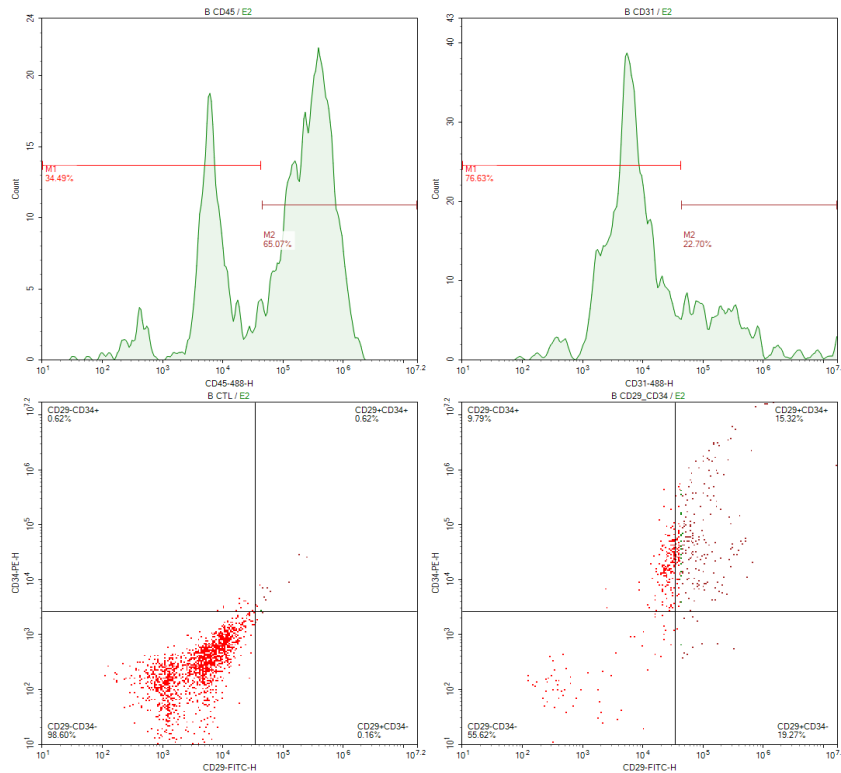


Figure 2. CD45, CD31 and CD29/CD34 flow result

Product Details

Tissue	mouse interscapular brown fat
Package Size	1 x 10 ⁶ cells/vial
Passage Number	P0
Shipped	Cryopreserved
Storage	Liquid nitrogen
Growth Properties	Adherent
Media	Adipose-derived Stem Cells Attachment Medium (Cat # MD-0002) Adipose-derived Stem Cells Growth Medium (Cat # MD-0003)

Protocols

Thawing of Frozen Cells

1. Upon receipt of the frozen cells, it is recommended to thaw the cells and initiate the culture immediately in order to retain the highest cell viability.
2. To thaw the cells, put the vial in 37°C water bath with gentle agitation for ~1 minute. Keep the cap out of water to minimize the risk of contamination.
3. Pipette the cells into a 15ml conical tube with 5ml fresh Adipose-derived Stem Cells Attachment Medium (Cat# MD-0002).
4. Centrifuge at 1000rpm (~220g) for 5 minutes under room temperature.
5. Remove the supernatant and resuspend the cells in fresh Adipose-derived Stem Cells Attachment Medium.
6. Culture the cell in one well of 6 well plate or one 35 mm dish (1 x 10⁶ cells/well or dish).

Safety Precaution: *it is highly recommended that protective gloves and clothing should be used when handling frozen vials.*

Standard Culture Procedure

1. SVF cells can be cultured in Adipose-derived Stem Cells Growth Medium (Cat# MD-0003).
2. Aspirate Adipose-derived Stem Cells Attachment medium 24 hours after seeding, wash briefly with PBS to get rid of unattached cell and RBCs. Apply Adipose-derived Stem Cells Growth medium to cells. Change growth medium every day in the first 2 days, then every 3 days until cells reach >90% confluence.
3. Cells can be subcultured or frozen when they reach >90% confluence.

References

[1] Bourin P, et al and Gimble JM. Stromal cells from the adipose tissue-derived stromal vascular fraction and culture expanded adipose tissue-derived stromal/stem cells: a joint statement of the International Federation for Adipose Therapeutics and Science (IFATS) and the International Society for Cellular Therapy (ISCT). *Cytotherapy*, 2013; 15(6):641-648.

[2] Gimble JM, et al and Guilak F. Concise review: Adipose-derived stromal vascular fraction cells and stem cells: let's not get lost in translation. *Stem Cells*. 2011; 29(5):749-754.

Disclaimers

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