

Isolation of CD34+

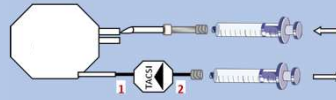
Preparation of solutions

- Elution buffer: 85% PBS + 10% ACD + 5% FBS
- DGM preparation
- Dextran 2% at room temperature



Cell collection

- Transfer the eluate to a 50 mL tube
- Dilute with Dextran 2%



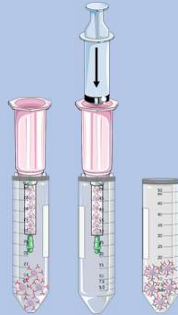
Buffy Coat

- Recover the supernatant and add it on top of the DGM
- Centrifuge at 400 g for 30 min with brake off
- Collect the PBMC fraction
- Washing steps (centrifugation 400 g for 10 min)



CD34+ selection

- Perform a cell count
- Incubate with the antibody for 30 min
- Washing step
- Pass the sample on the column (twice)



Freezing

- Perform a cell count and prepare:
 - 60% Stemspan + 40% FBS
 - 40% Stemspan + 40% FBS + 20 % DMSO
- Aliquot by 400 μ L in cryotubes

CD34+ Purity

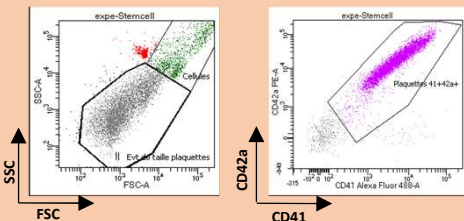
- Incubate 100 μ L of sample with 2 μ L of hCD34-PE or IgG-PE antibody (for 30 min)
- Complete to 300 μ L and perform flow cytometry analysis

Release platelets

- At day 13
- 5 successive pipetting
- Perform cytometry tests



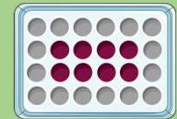
x5



Platelet Release

Cell culture D0-D7

- Seed CD34+ medium / PSG / Human LDL / CC220 / SR1
- Incubate at 37°C for 7 days



Cell culture D7-13

- Seed cells in medium / TPO / Human LDL / SR1
- Incubate at 37°C for 6 days

Cell Culture