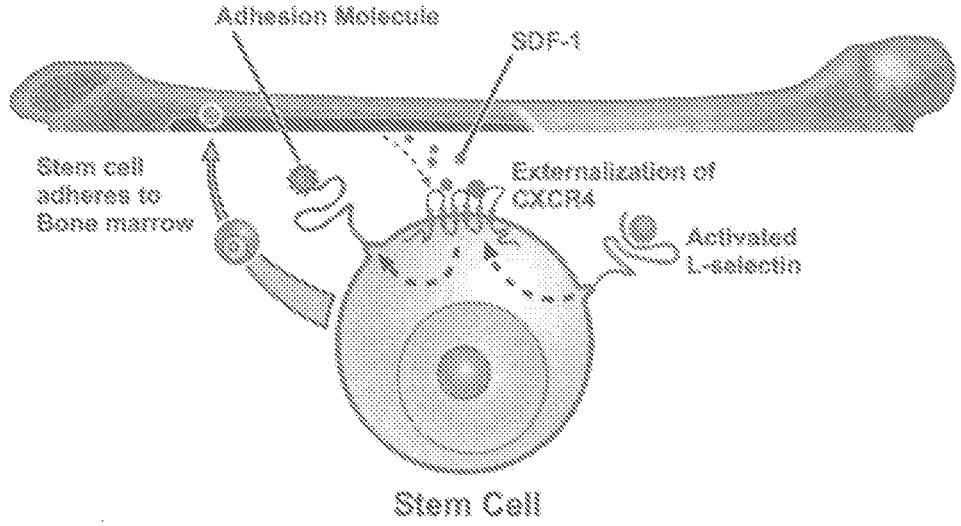
Figure 1.

A.


Adhesion Molecule
SDF-1
Stem cell adheres to Bone marrow
Externalization of CXCR4
Activated L-selectin
Stem Cell

B.

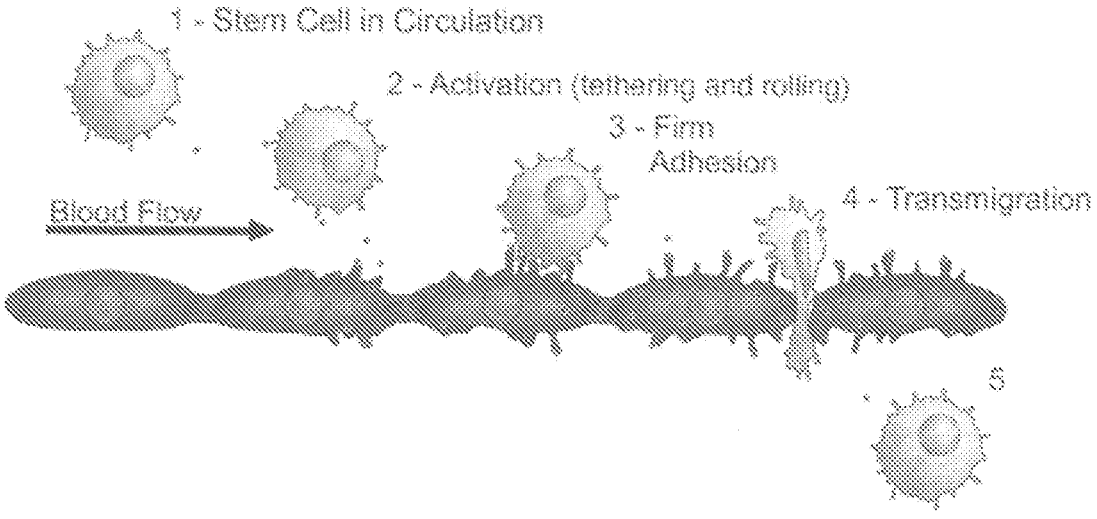

1 - Stem Cell in Circulation
2 - Activation (tethering and rolling)
3 - Firm Adhesion
4 - Transmigration
Blood Flow
5

Figure 1.

C.

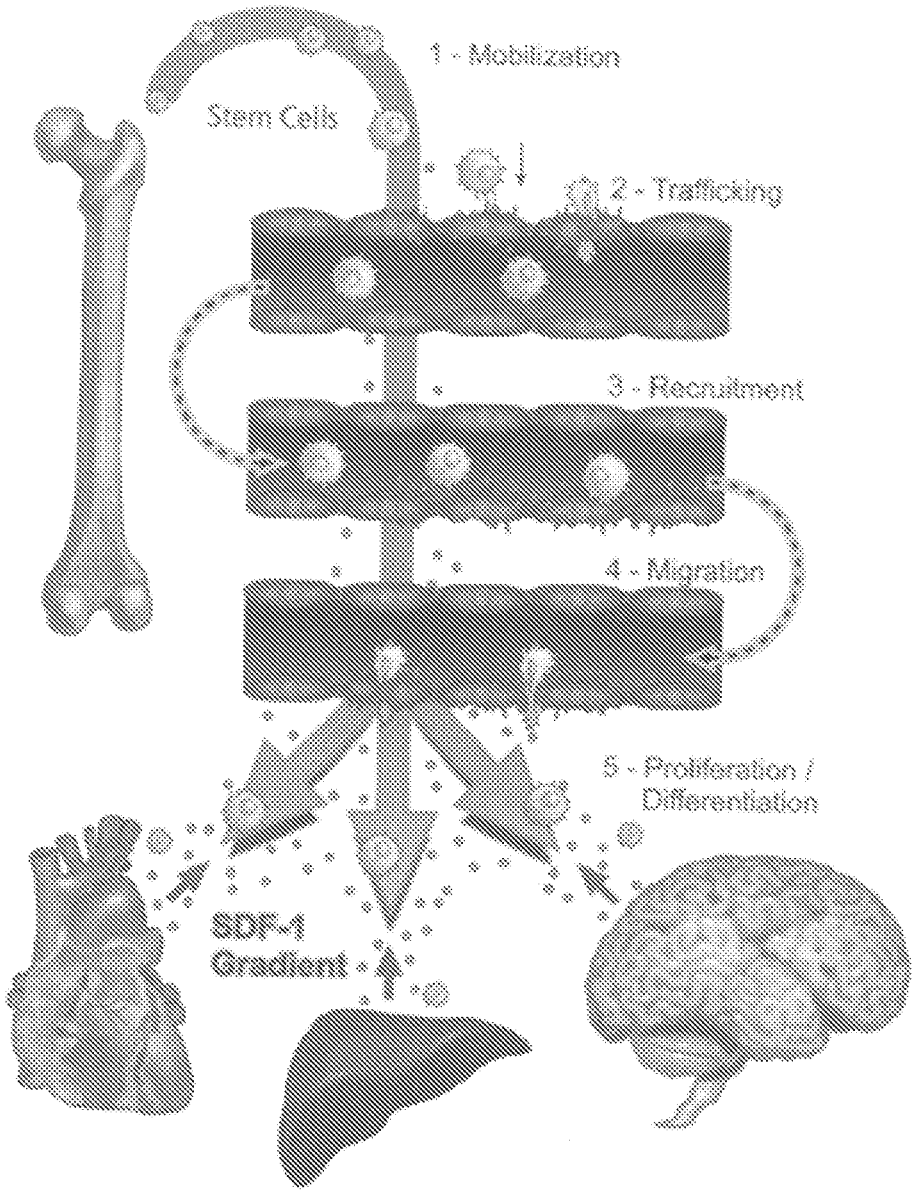

1 - Mobilization
Stem Cells
2 - Trafficking
3 - Recruitment
4 - Migration
5 - Proliferation / Differentiation
SDF-1 Gradient

Figure 2.

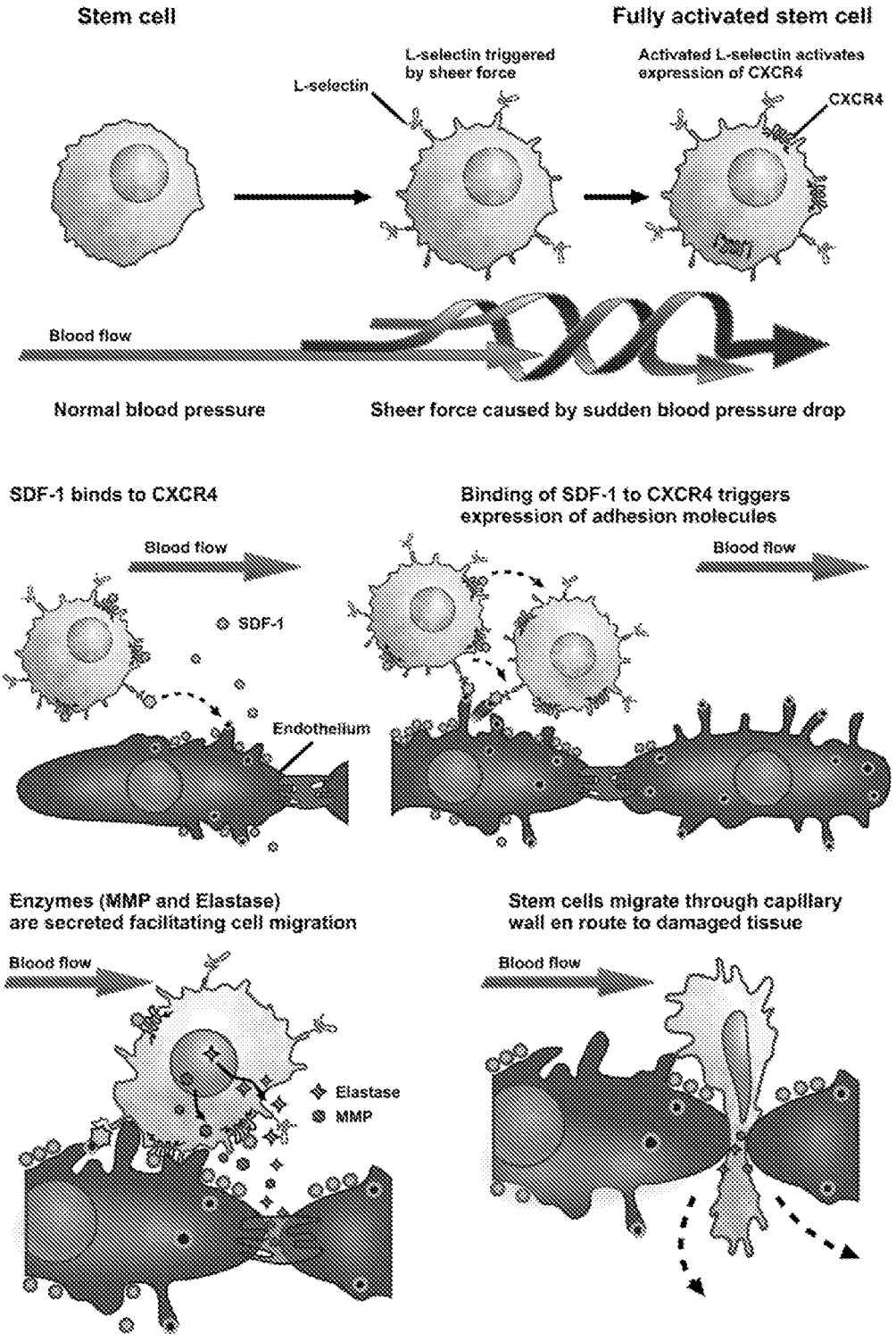
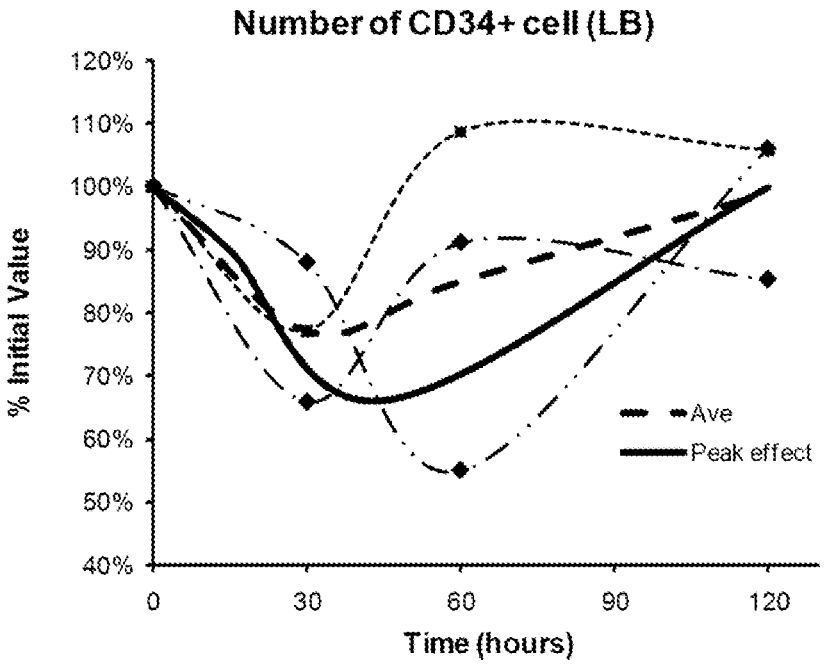

Stem cell
Fully activated stem cell
L-selectin triggered by sheer force
Activated L-selectin activates expression of CXCR4
L-selectin
CXCR4
Blood flow
Normal blood pressure
Sheer force caused by sudden blood pressure drop
SDF-1 binds to CXCR4
Binding of SDF-1 to CXCR4 triggers expression of adhesion molecules
Blood flow
SDF-1
Endothelium
Enzymes (MMP and Elastase) are secreted facilitating cell migration
Stem cells migrate through capillary wall en route to damaged tissue
Elastase
MMP

Figure 3.

A.


Number of CD34+ cell (LB)
120%
110%
100%
90%
80%
70%
60%
50%
40%
% Initial Value
0
30
60
90
120
Time (hours)
Ave
Peak effect

B.

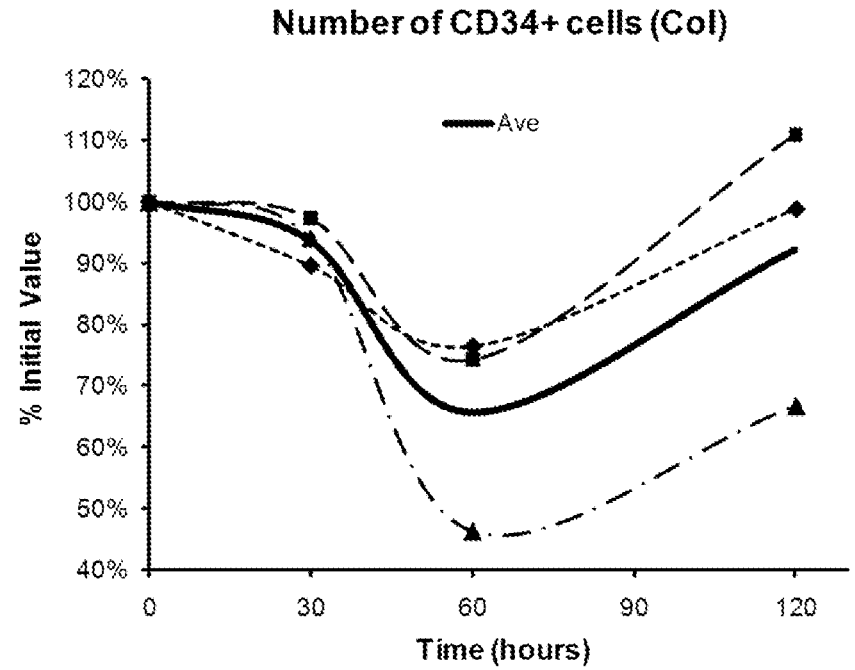

Number of CD34+ cells (Col)
120%
110%
100%
90%
80%
70%
60%
50%
40%
% Initial Value
0
30
60
90
120
Time (hours)
Ave

Figure 4.

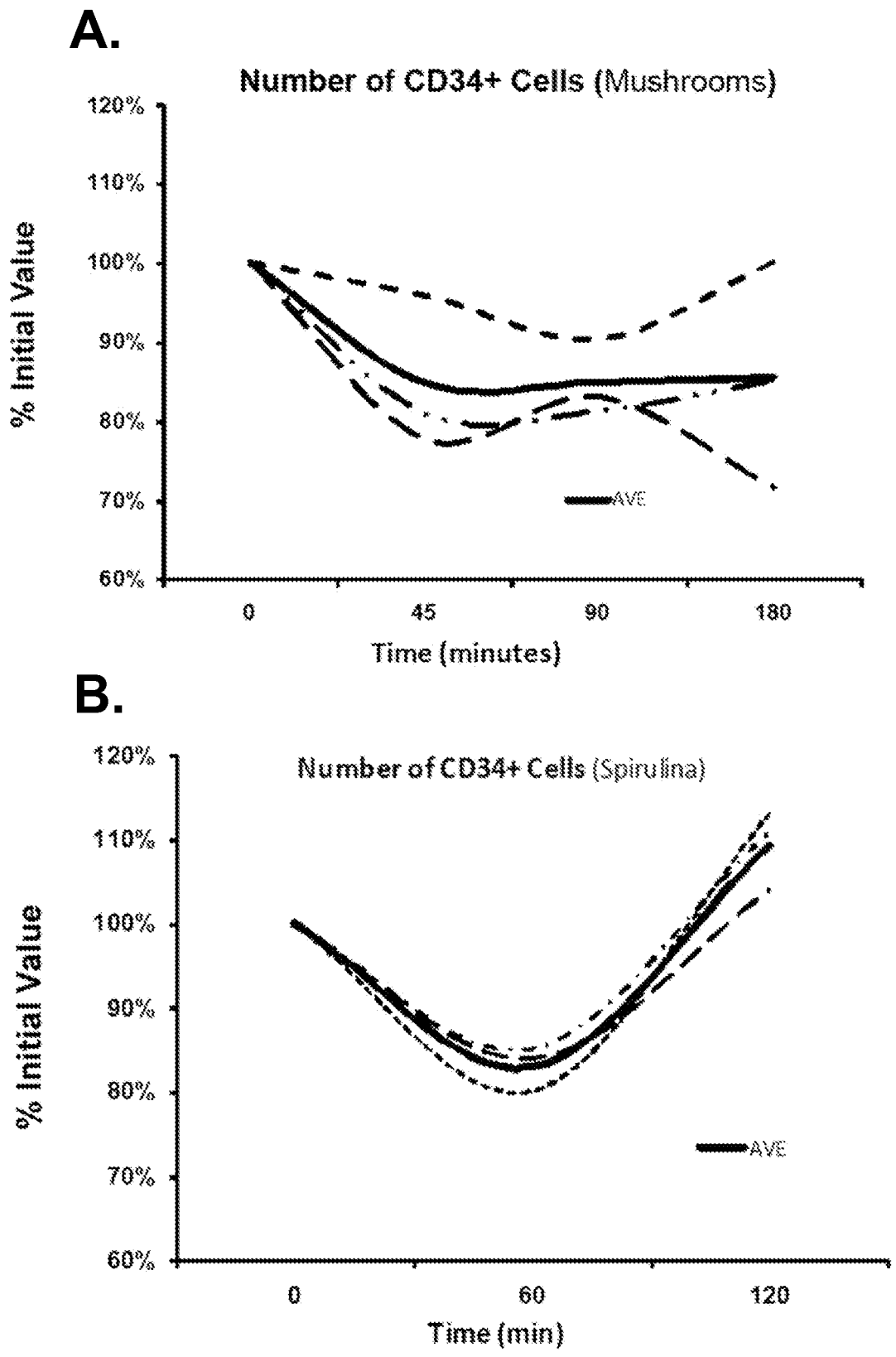
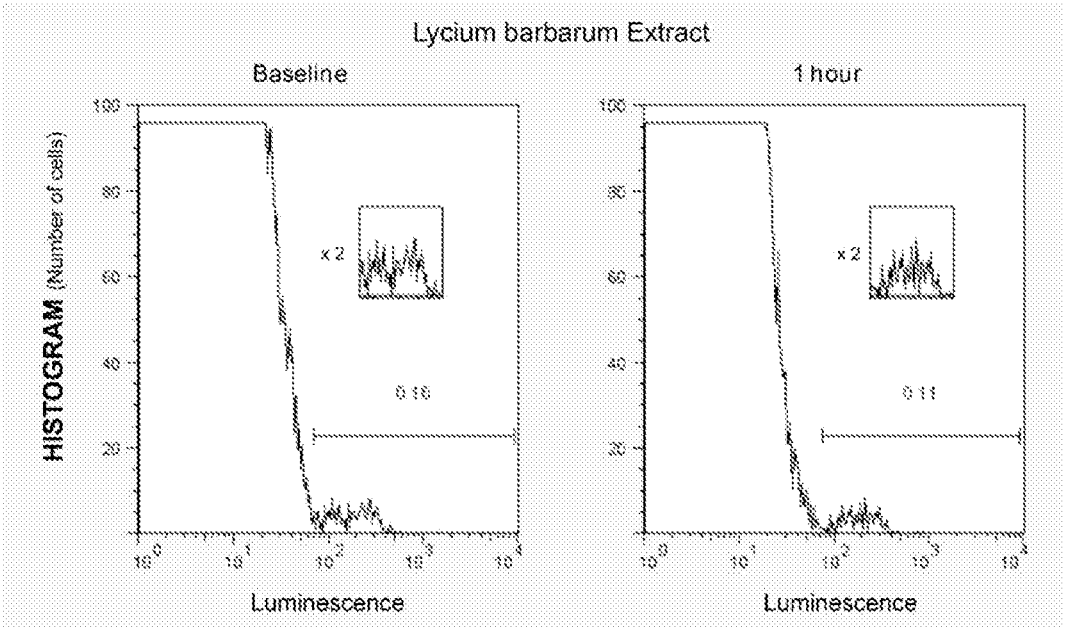

A.
Number of CD34+ Cells (Mushrooms)
% Initial Value
120%
110%
100%
90%
80%
70%
60%
0
45
90
180
Time (minutes)
AVE
B.
Number of CD34+ Cells (Spirulina)
% Initial Value
120%
110%
100%
90%
80%
70%
60%
0
60
120
Time (min)
AVE

Figure 5.

A.


Lycium barbarum Extract
Baseline
1 hour
HISTOGRAM (Number of cells)
x 2
0.16
0.11
Luminescence
Luminescence

B.

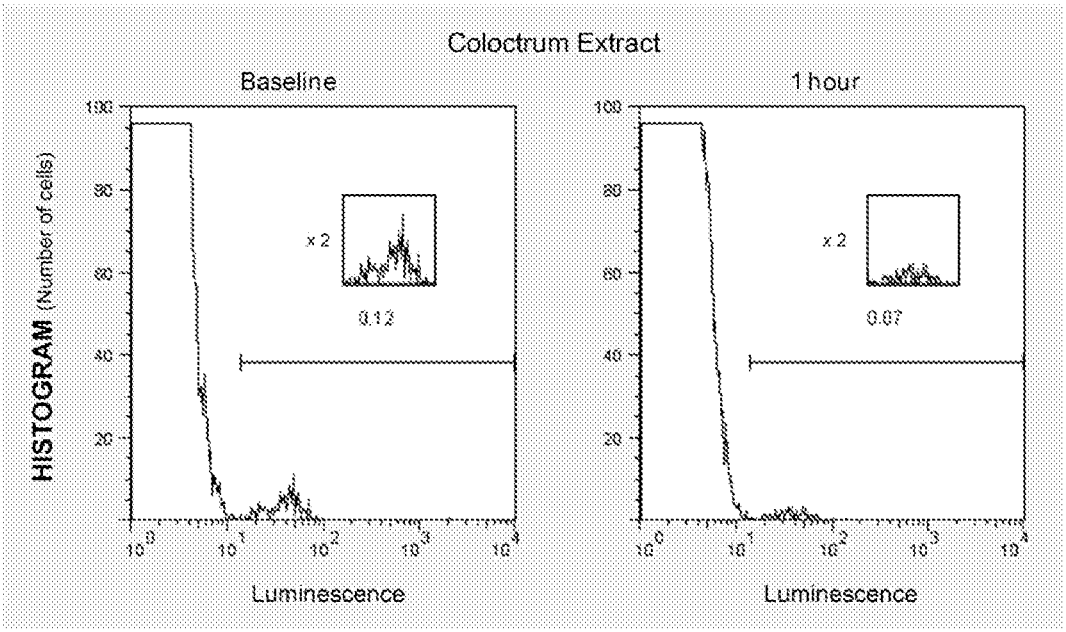

Coloctrum Extract
Baseline
1 hour
HISTOGRAM (Number of cells)
x 2
0.12
0.07
Luminescence
Luminescence

Figure 5.

C.

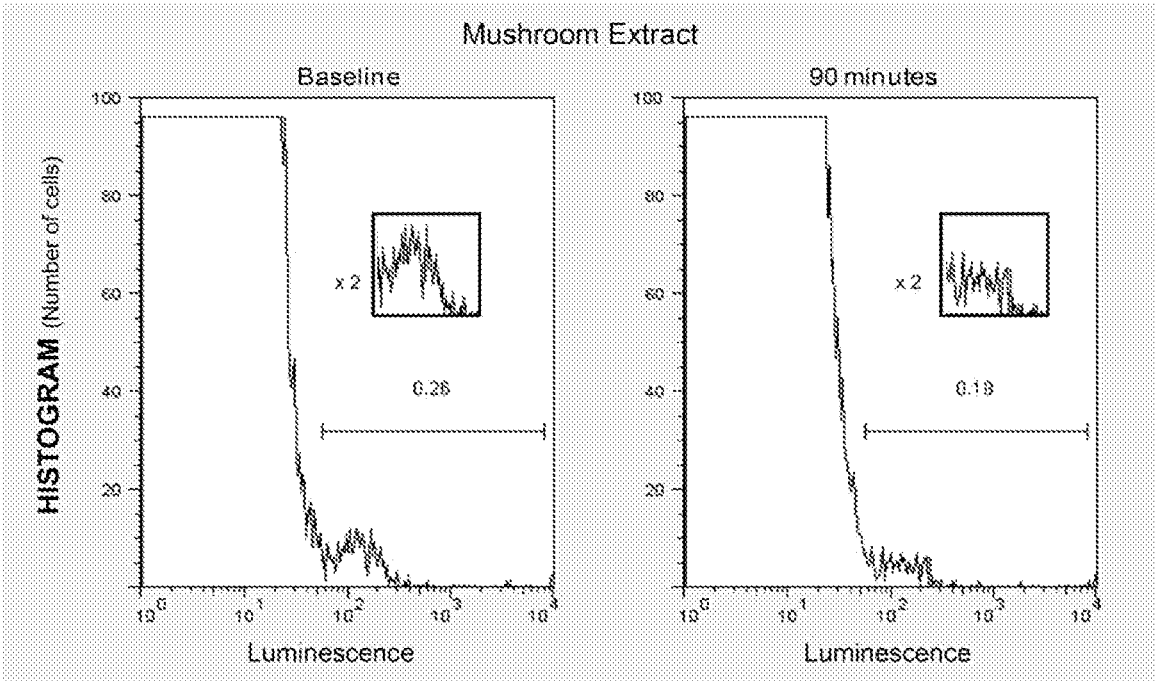

Mushroom Extract
Baseline
90 minutes
HISTOGRAM (Number of cells)
x 2
x 2
0.28
0.18
Luminescence
Luminescence

Figure 6.

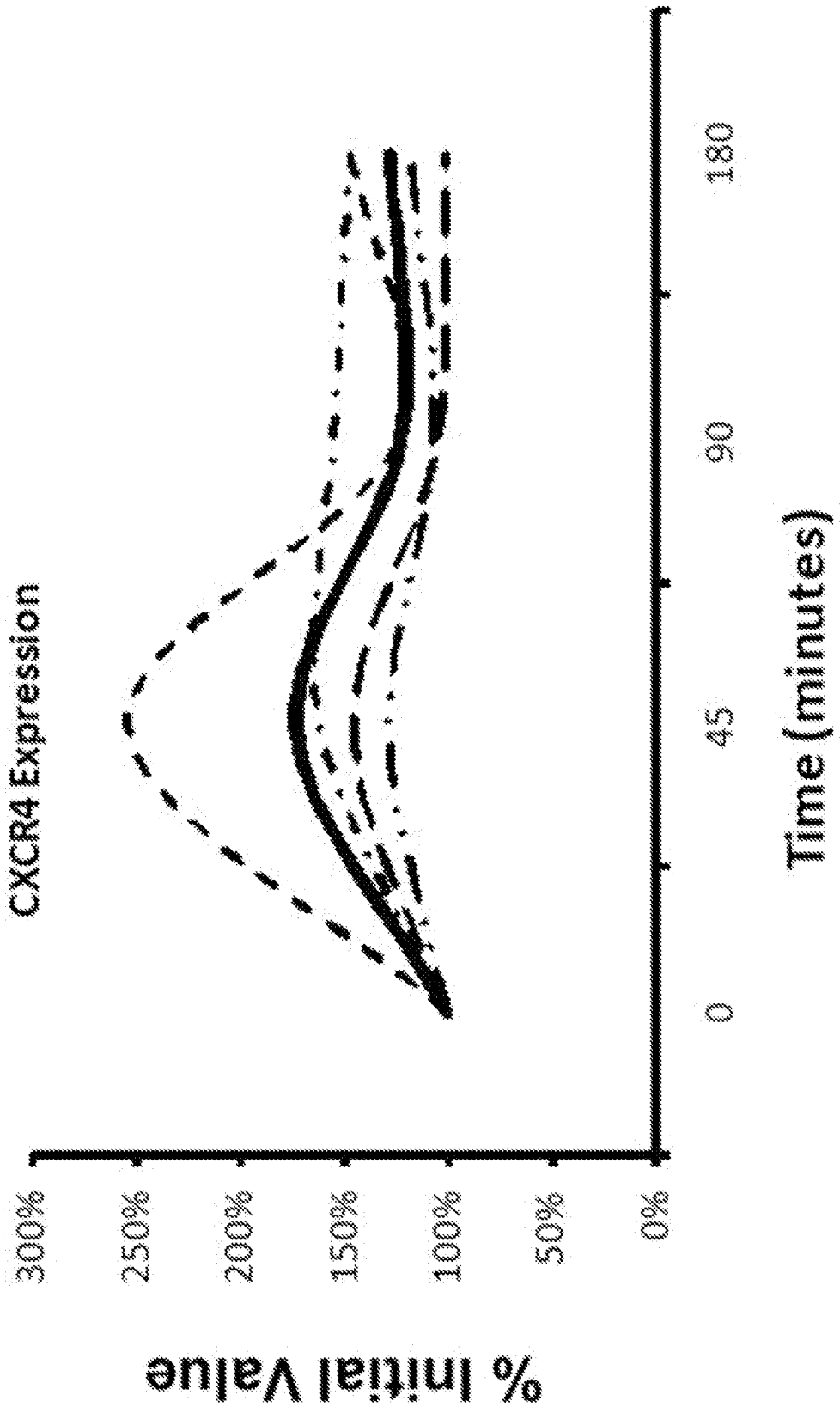

CXCR4 Expression
% Initial Value
300%
250%
200%
150%
100%
50%
0%
0
45
90
180
Time (minutes)

Figure 7.

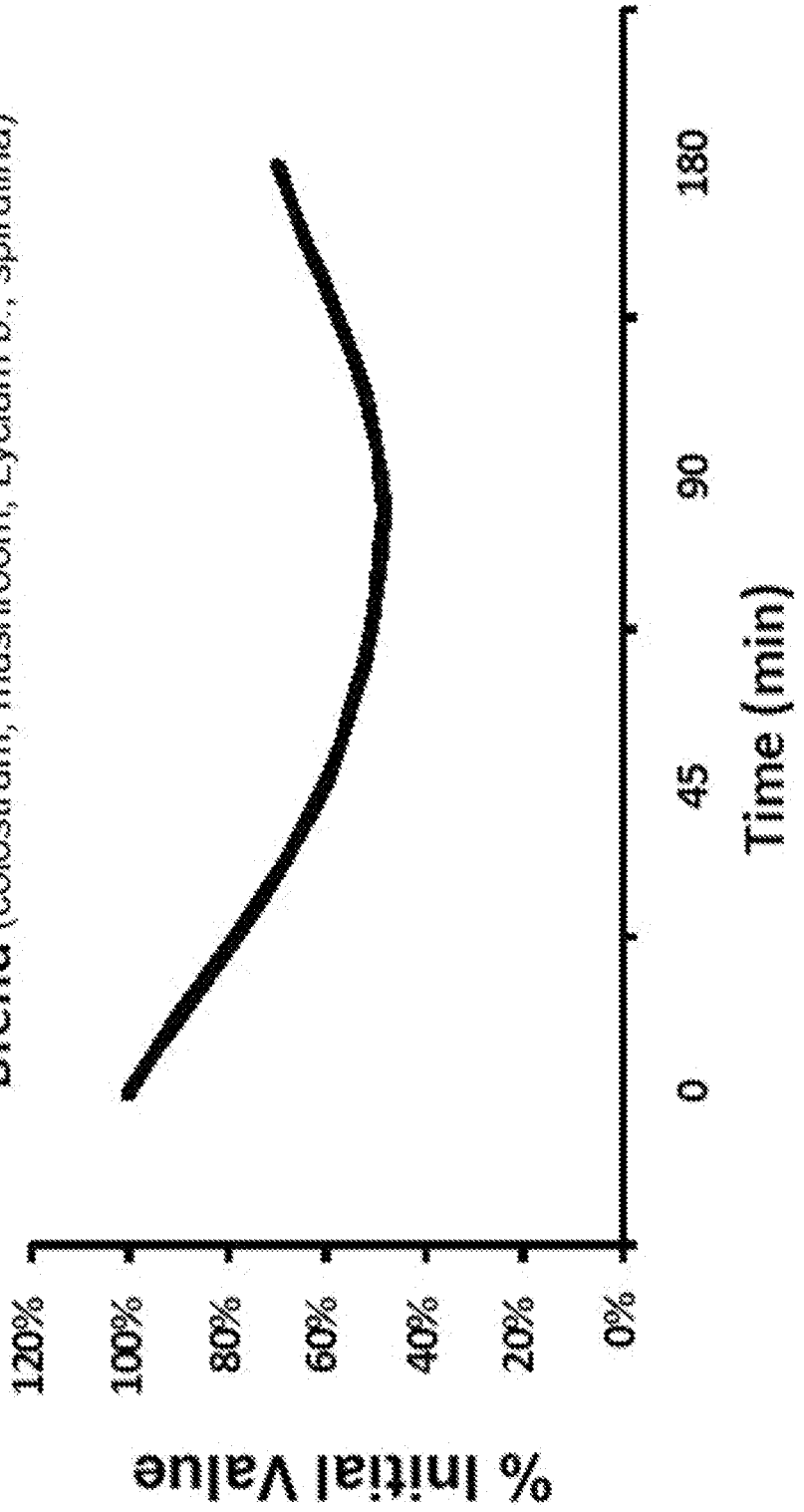

Blend (colostrum, mushroom, Lycium b., spirulina)
% Initial Value
120%
100%
80%
60%
40%
20%
0%
0
45
90
180
Time (min)

Figure 8.

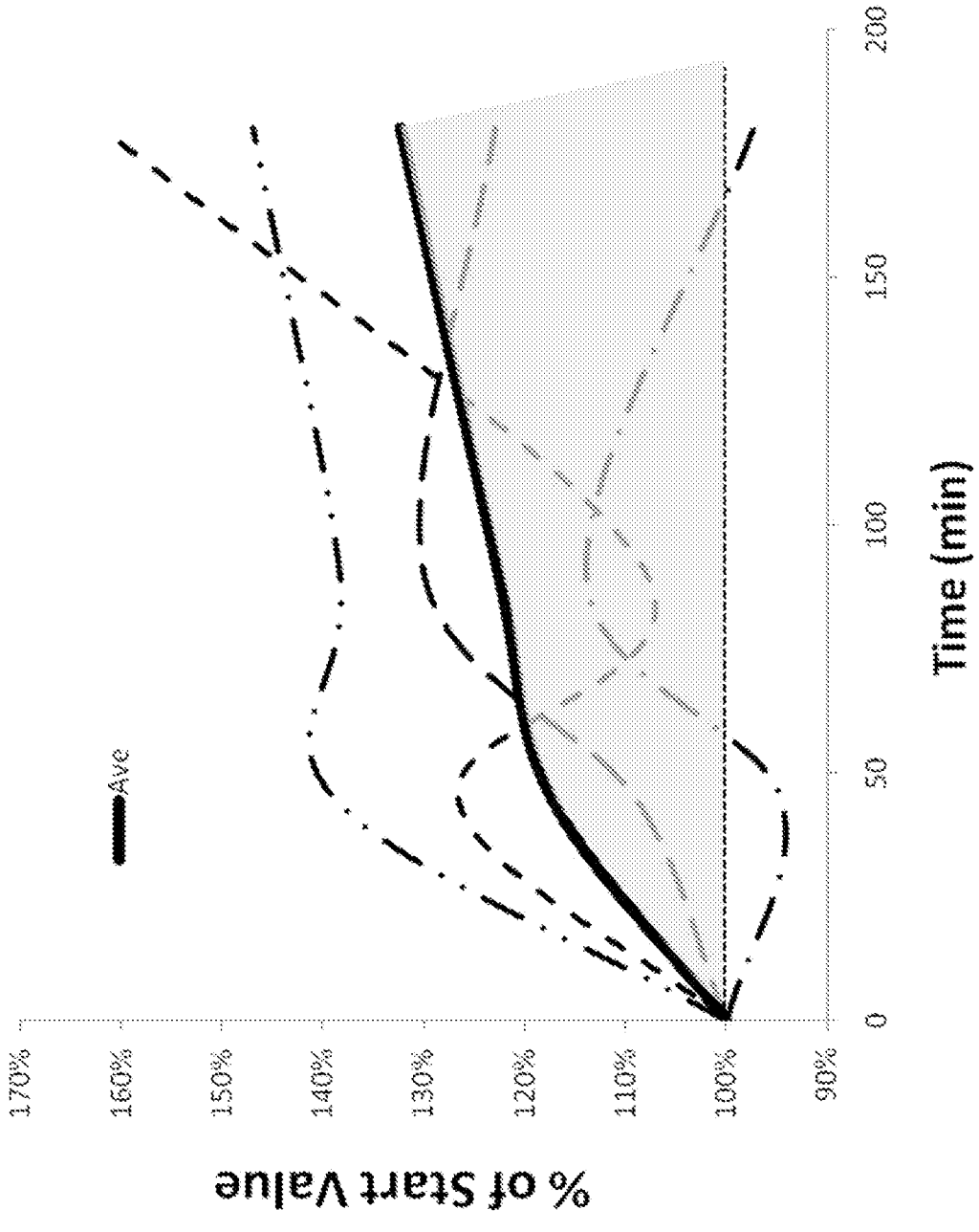

Number of CD34+ cells
Ave
% of Start Value
170%
160%
150%
140%
130%
120%
110%
100%
90%
0
50
100
150
200
Time (min)

Figure 9.

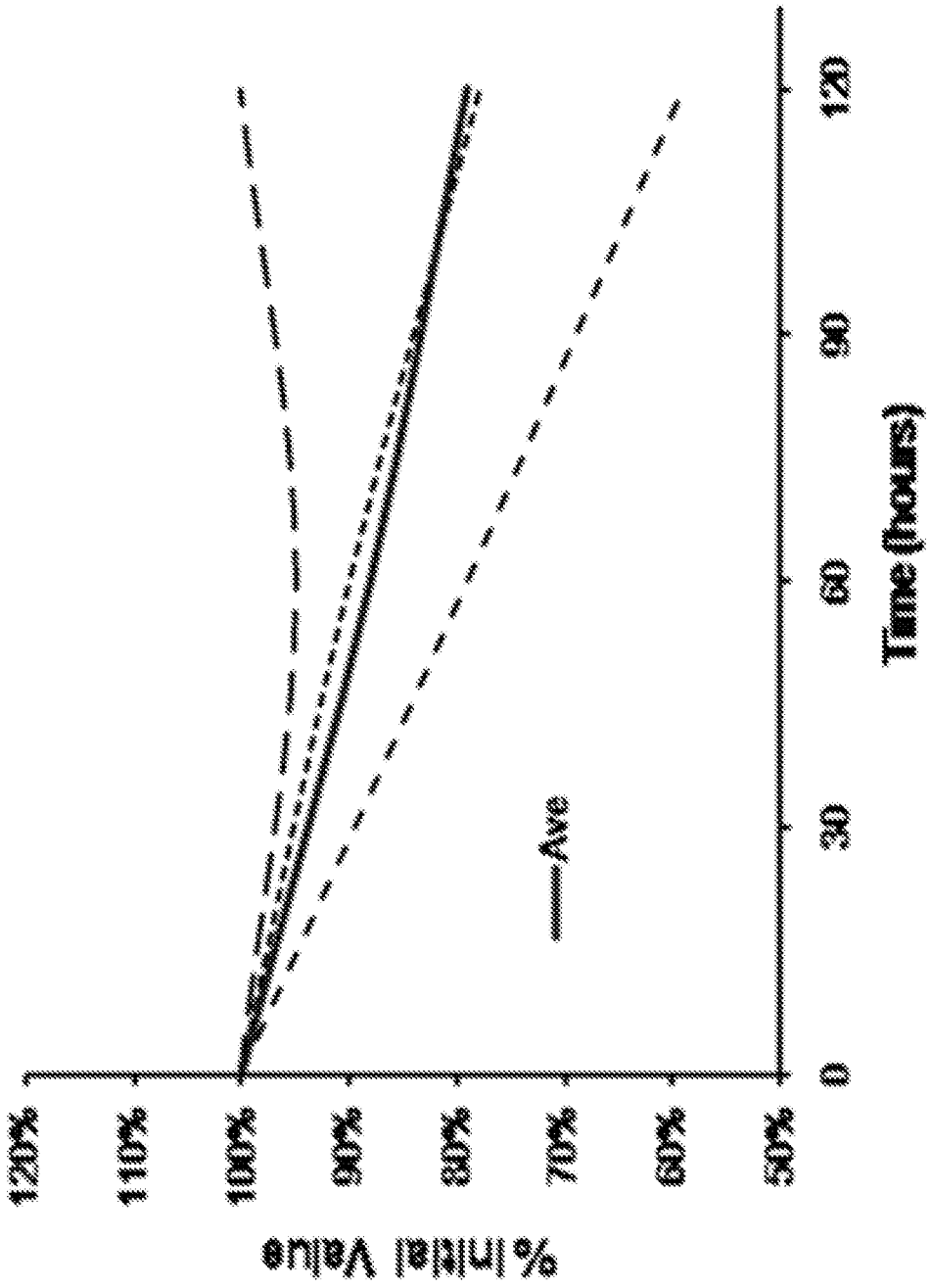
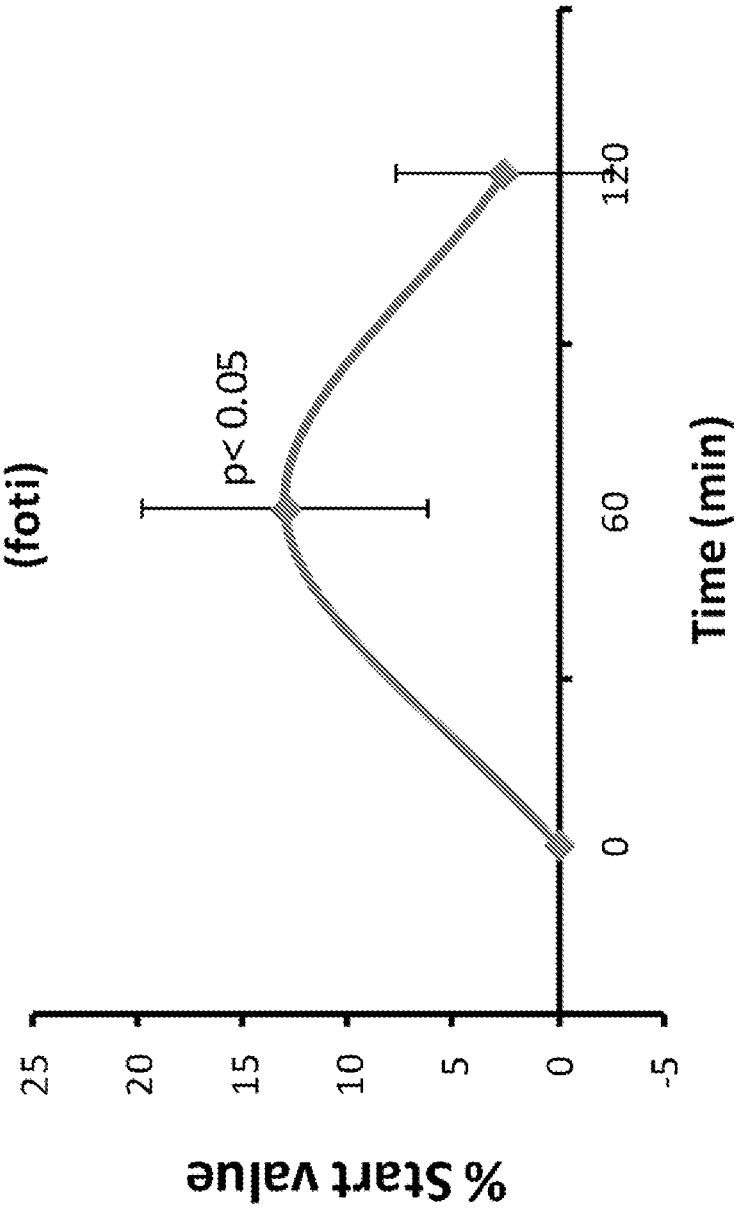

Number of CD34+ cells (Fuc)
% Initial Value
120%
110%
100%
90%
80%
70%
60%
50%
0
30
60
90
120
Time (hours)
Ave

Figure 10.


Number of circulating CD34+ cells
before and after consumption of He Shou Wu
(foti)
% Start value
25
20
15
10
5
0
-5
p< 0.05
0
60
120
Time (min)

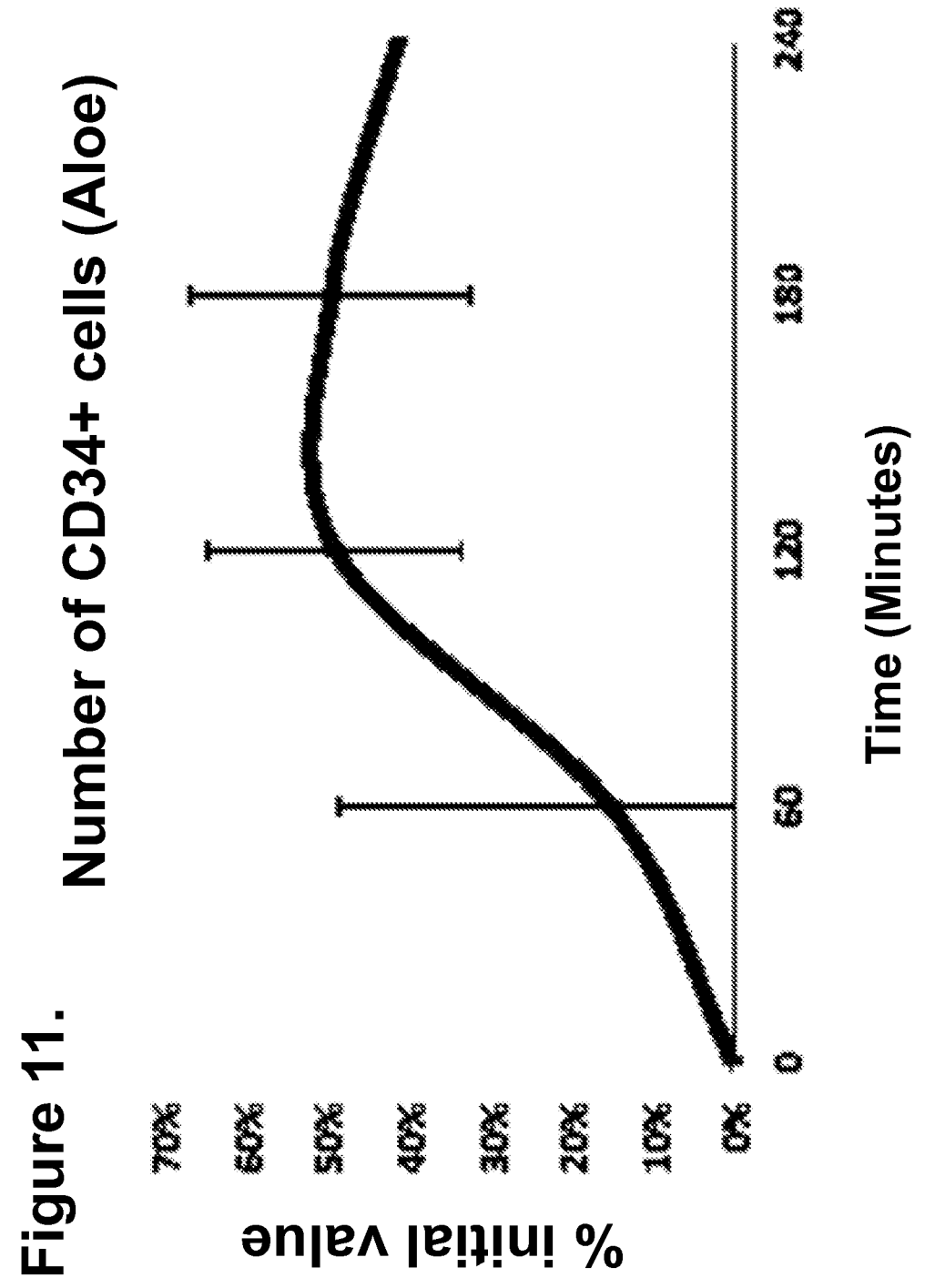

Number of CD34+ cells (Aloe)
% initial value
70%
60%
50%
40%
30%
20%
10%
0%
0
60
120
180
240
Time (Minutes)

Figure 11.

Figure 12.

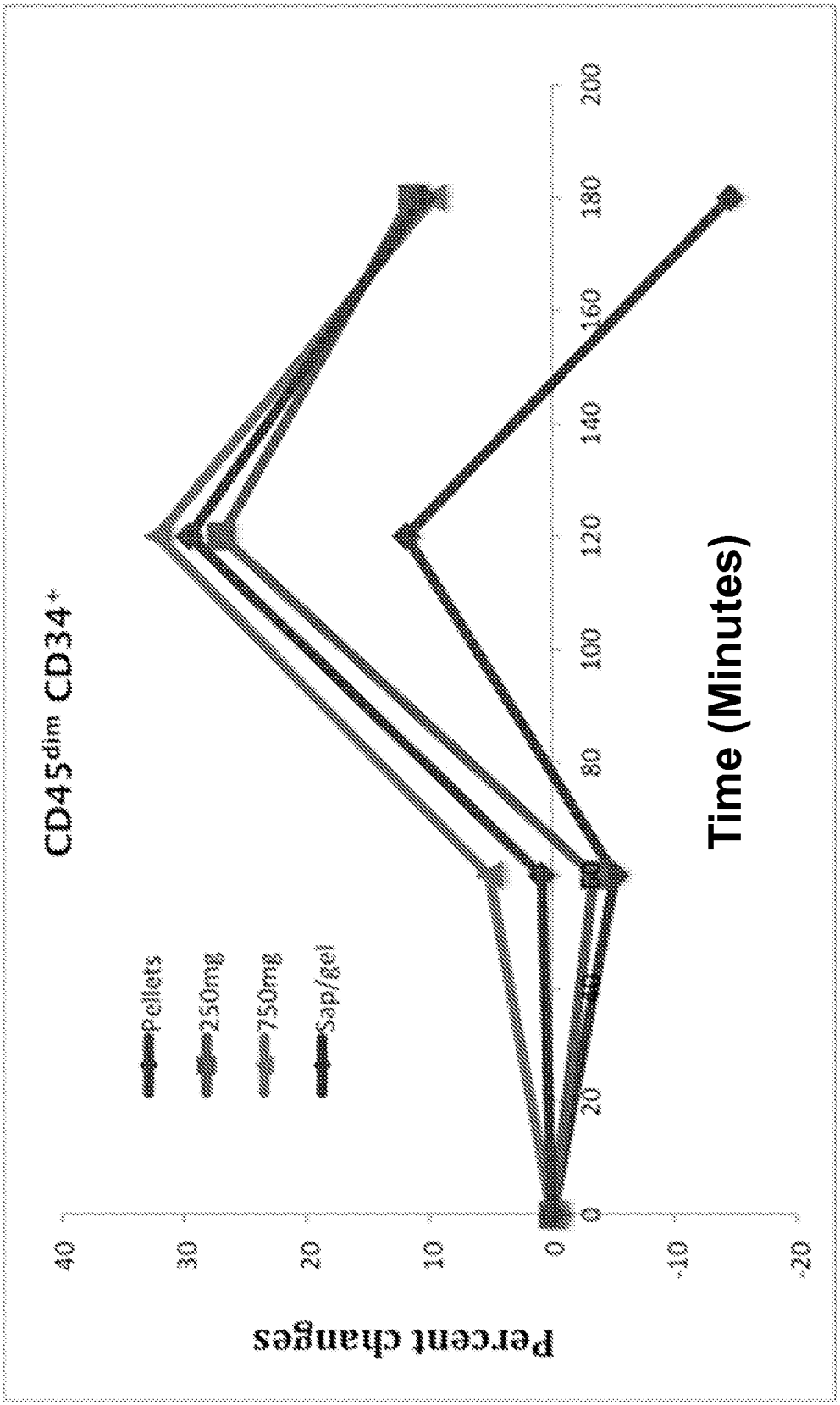

CD45dim CD34+
Pellets
250mg
750mg
Sap/gel
Percent changes
Time (Minutes)
40
30
20
10
0
-10
-20
0
20
80
100
120
140
160
180
200

Figure 13.

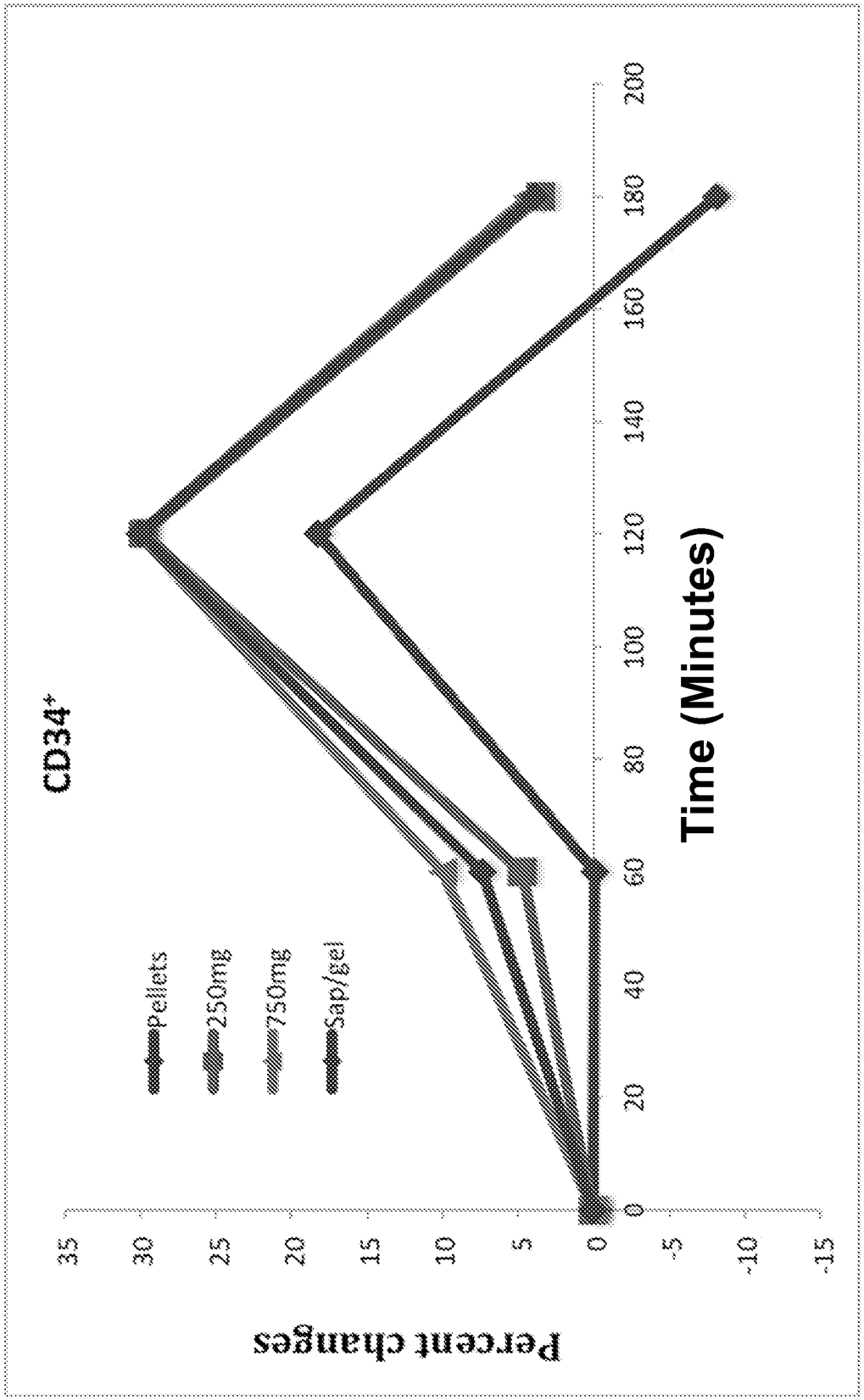

CD34+
Pellets
250mg
750mg
Sap/gel
Percent changes
Time (Minutes)
35
30
25
20
15
10
5
0
-5
-10
-15
0
20
40
60
80
100
120
140
160
180
200

Figure 14.

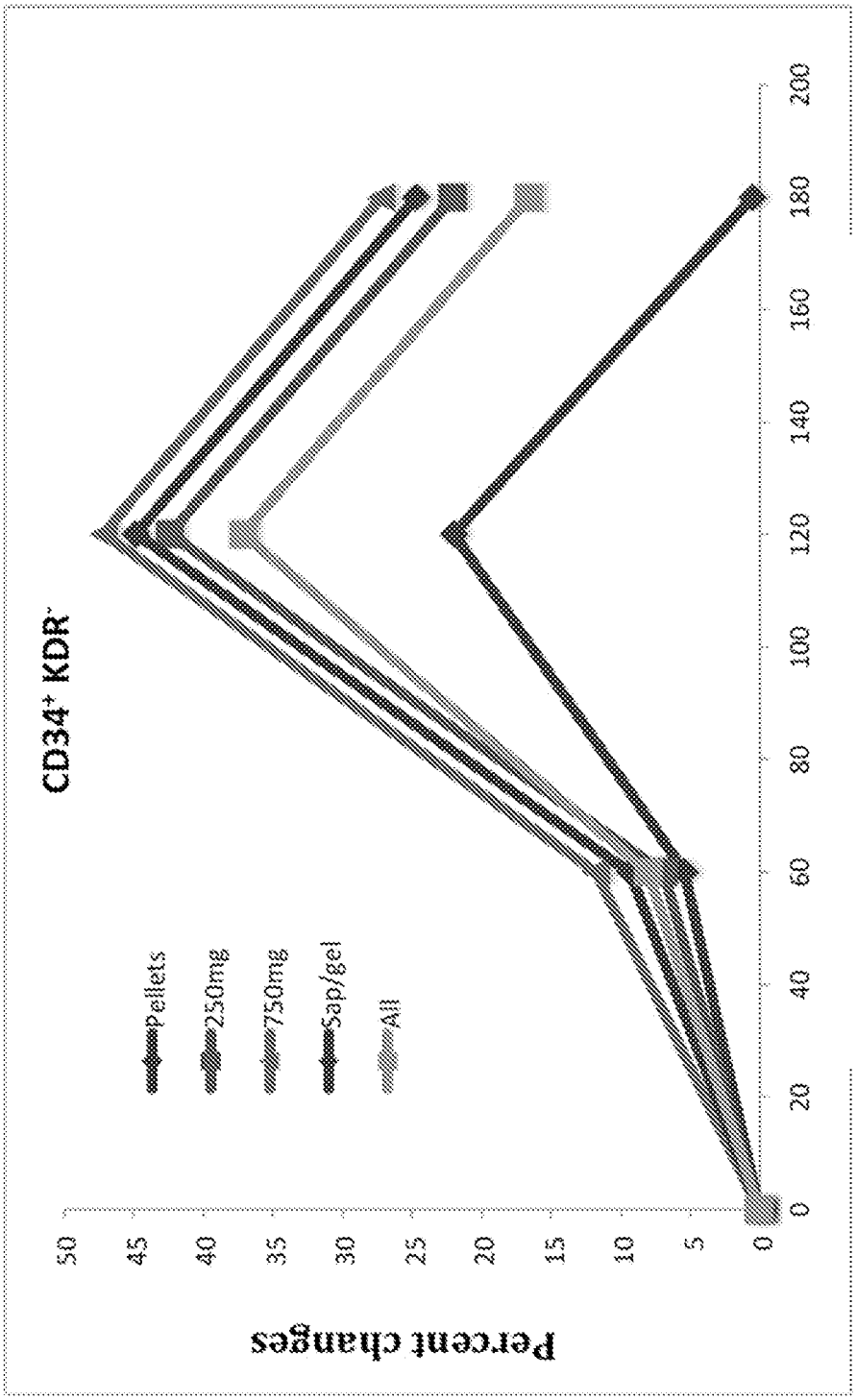
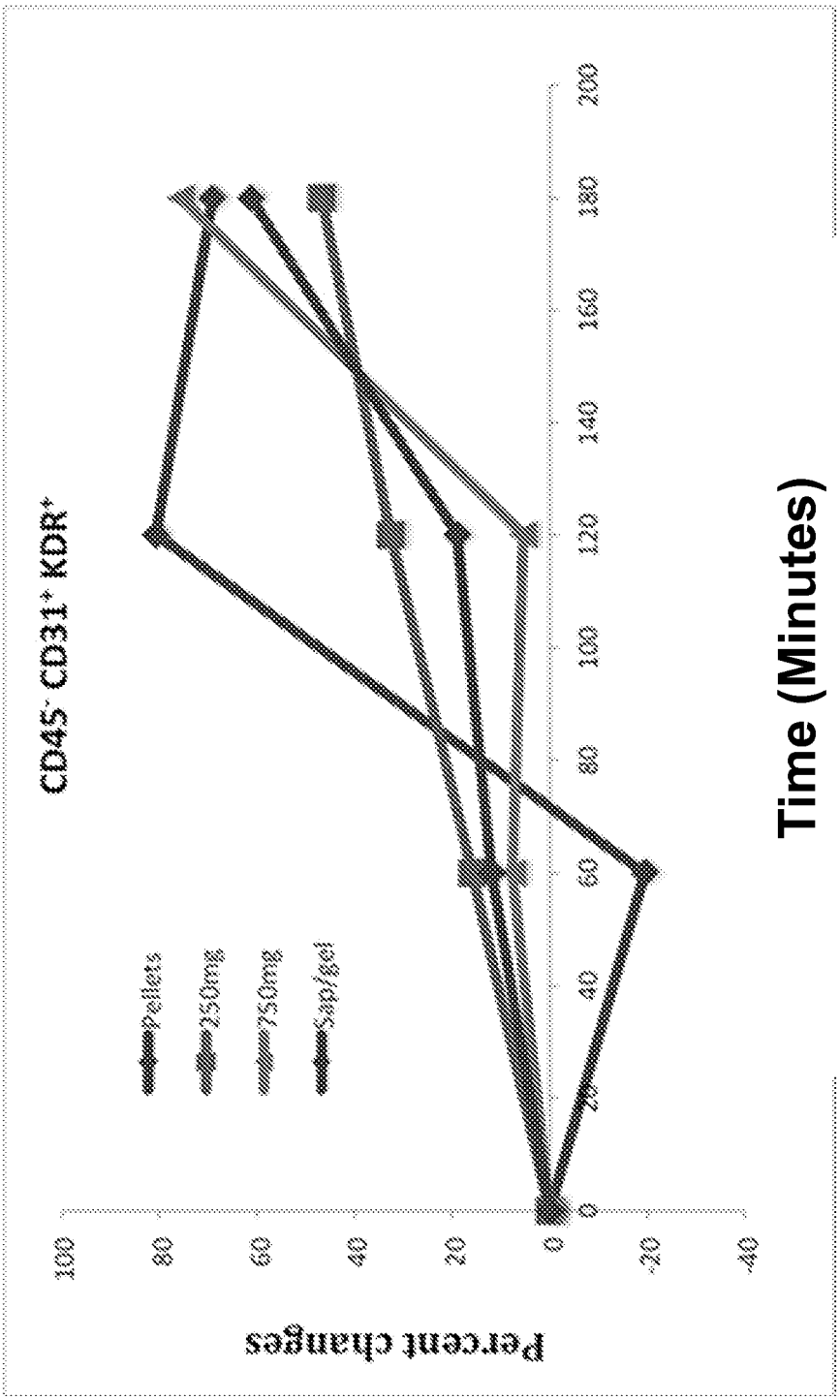

CD34+ KDR-
Percent changes
Time (Minutes)
Pellets
250mg
750mg
Sap/gel
All
0
5
10
15
20
25
30
35
40
45
50
0
20
40
60
80
100
120
140
160
180
200

Figure 15.


CD45- CD31+ KDR+
Percent changes
Time (Minutes)
Pellets
250mg
750mg
Sap/gel
100
80
60
40
20
0
-20
-40
0
20
40
60
80
100
120
140
160
180
200