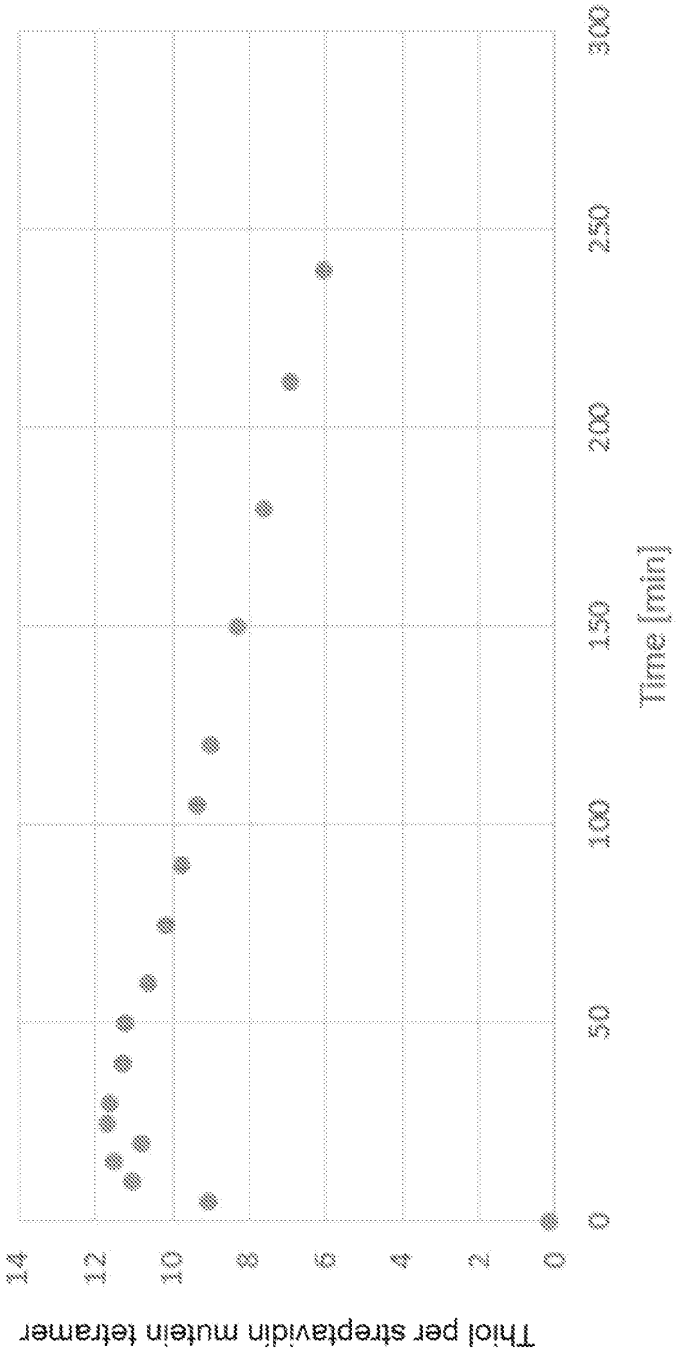

Thiol per streptavidin mutein tetramer
14
12
10
8
6
4
2
0
0
50
100
150
200
250
300
Time [min]

FIG. 1

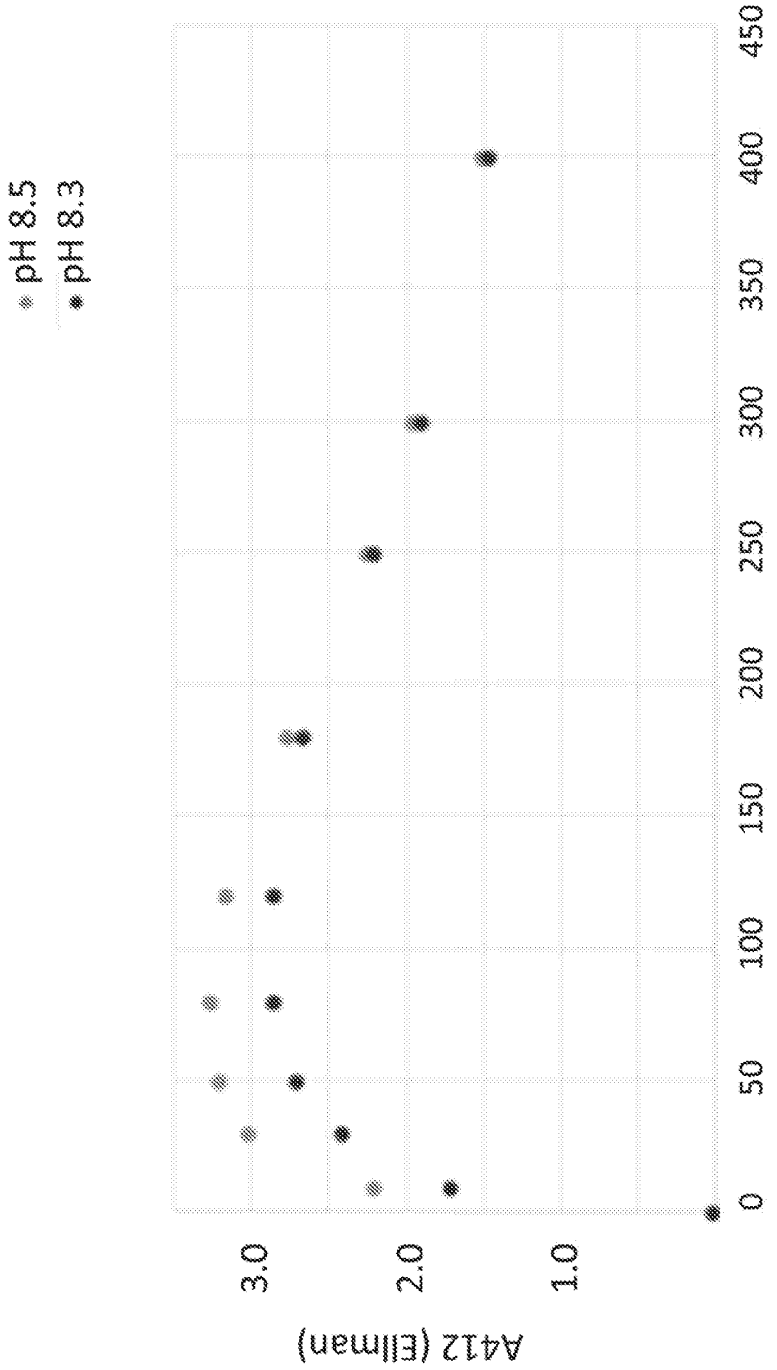

pH 8.5
pH 8.3
A412 (Ellman)
3.0
2.0
1.0
0
50
100
150
200
250
300
350
400
450
Time

FIG. 2

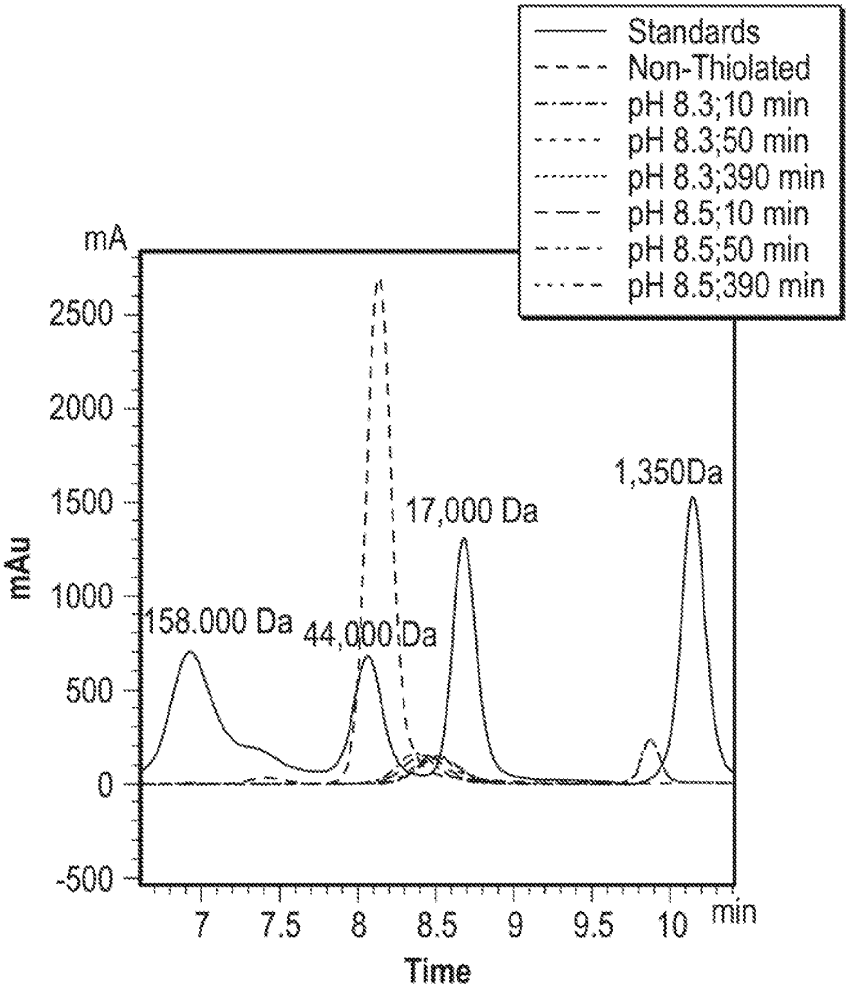

Standards
Non-Thiolated
pH 8.3;10 min
pH 8.3;50 min
pH 8.3;390 min
pH 8.5;10 min
pH 8.5;50 min
pH 8.5;390 min
mA
2500
2000
1500
1000
500
0
-500
mAu
158.000 Da
44,000 Da
17,000 Da
1,350Da
7
7.5
8
8.5
9
9.5
10
min
Time

FIG. 3

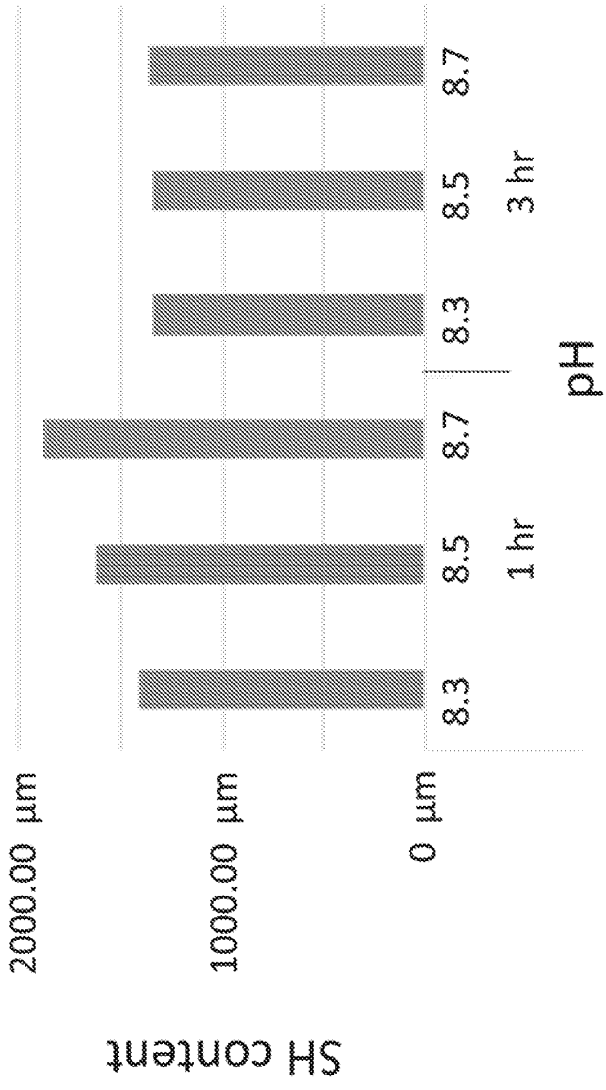


FIG. 4

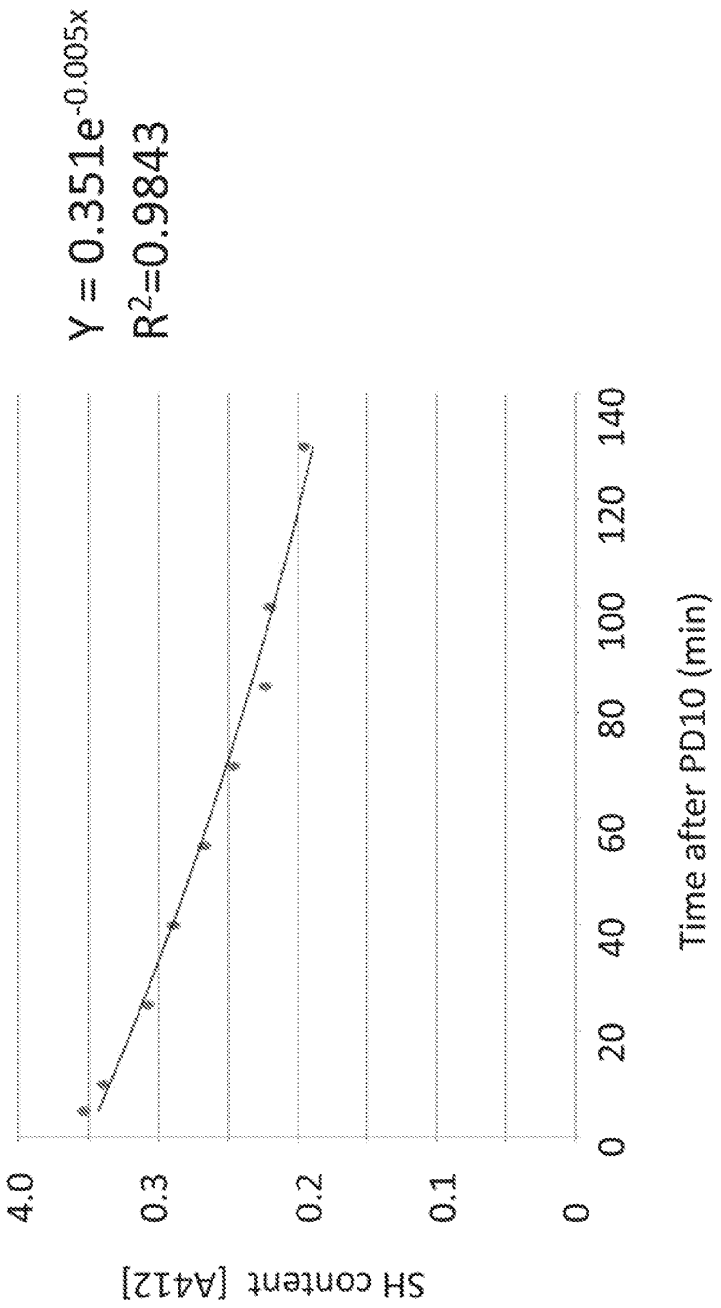

Y = 0.351e-0.005x
R2=0.9843
SH content [A412]
4.0
0.3
0.2
0.1
0
0
20
40
60
80
100
120
140
Time after PD10 (min)

FIG. 5

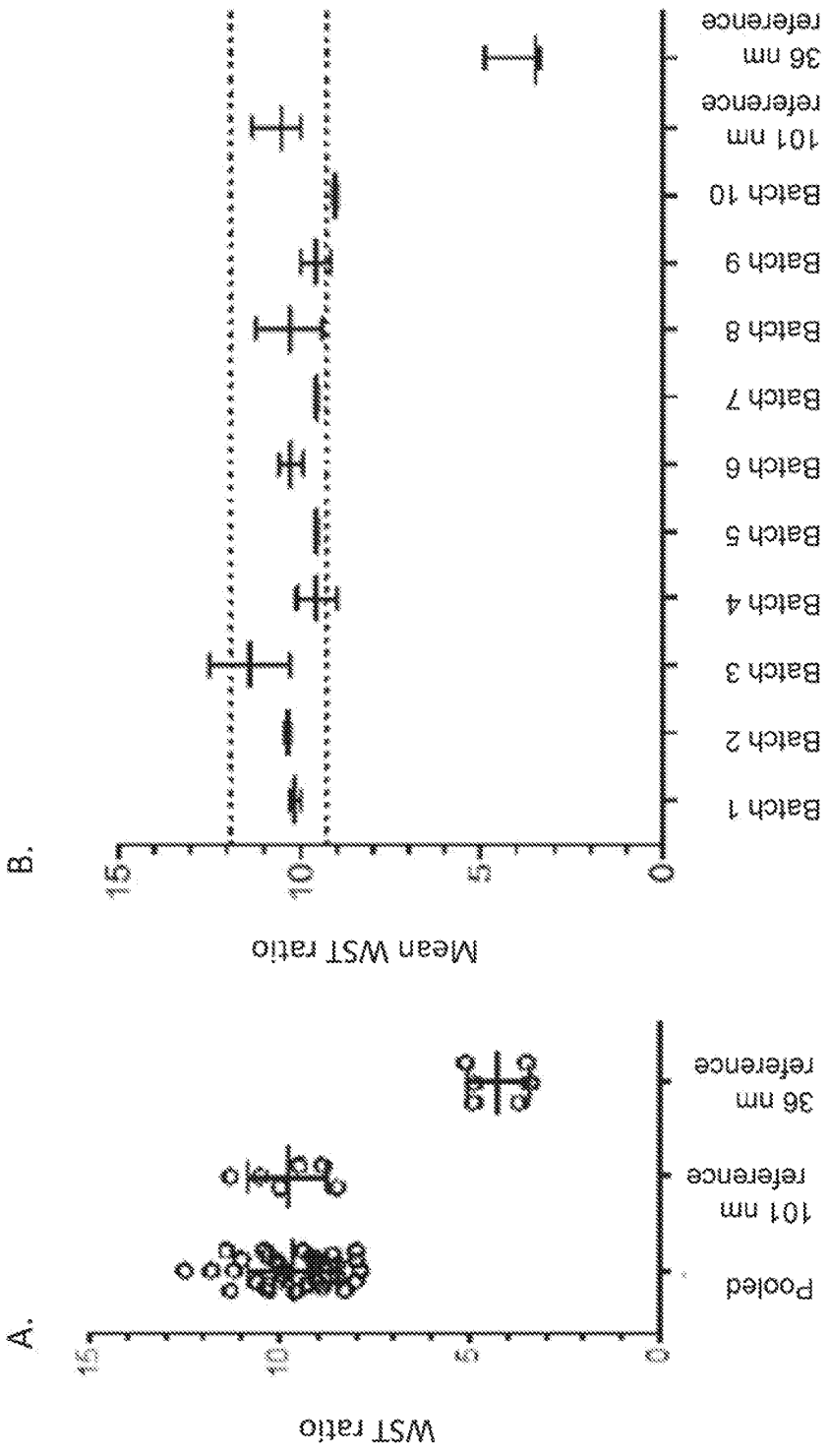

A.
WST ratio
15
10
5
0
Pooled
101 nm reference
36 nm reference
B.
Mean WST ratio
15
10
5
0
Batch 1
Batch 2
Batch 3
Batch 4
Batch 5
Batch 6
Batch 7
Batch 8
Batch 9
Batch 10
101 nm reference
36 nm reference

FIG. 6A

FIG. 6B

FIG. 7

FIG. 7A

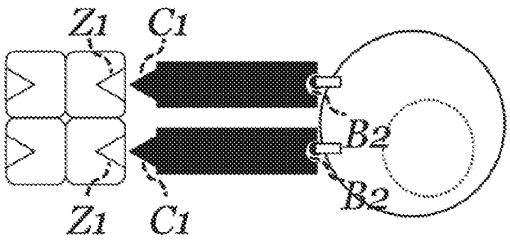


FIG. 7B

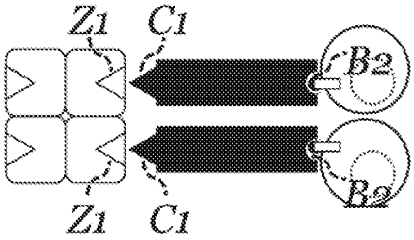


FIG. 7C

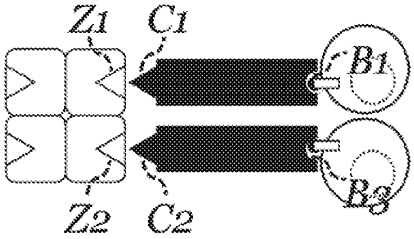


FIG. 7D

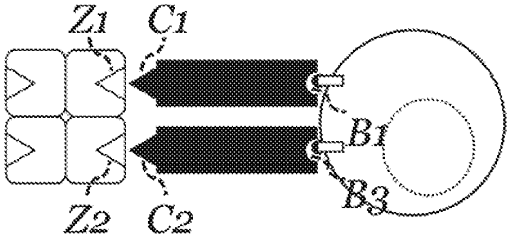


FIG. 7E

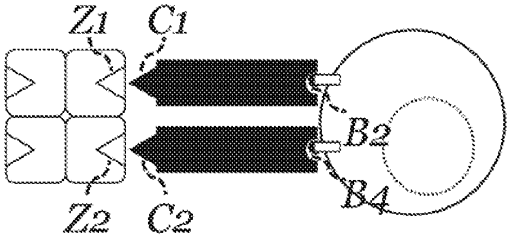


FIG. 8

FIG. 8A

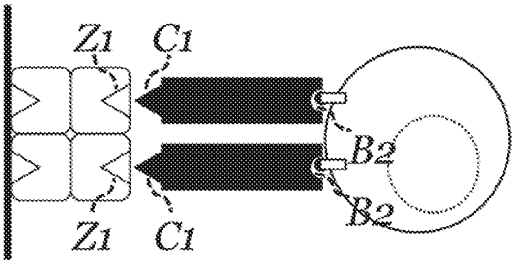


FIG. 8B

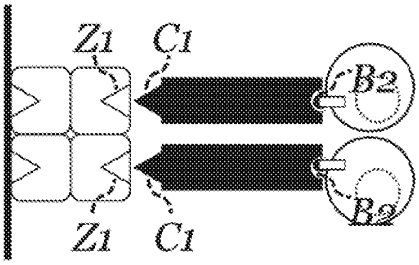


FIG. 8C

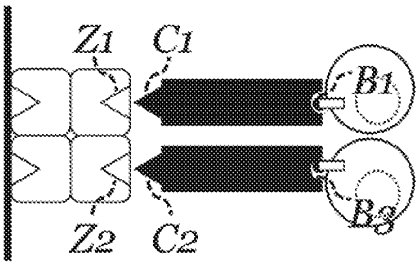


FIG. 8D

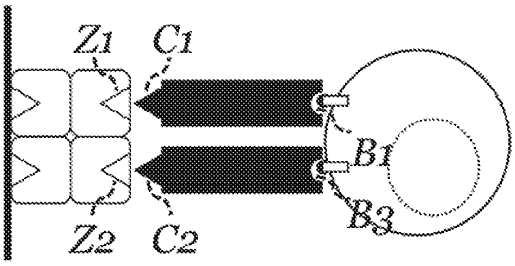


FIG. 8E

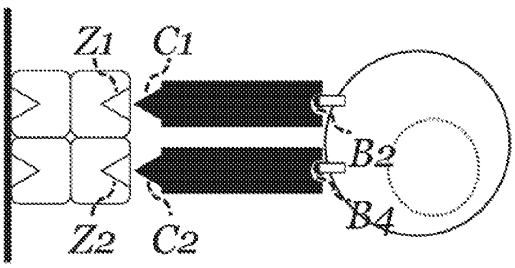


FIG. 9

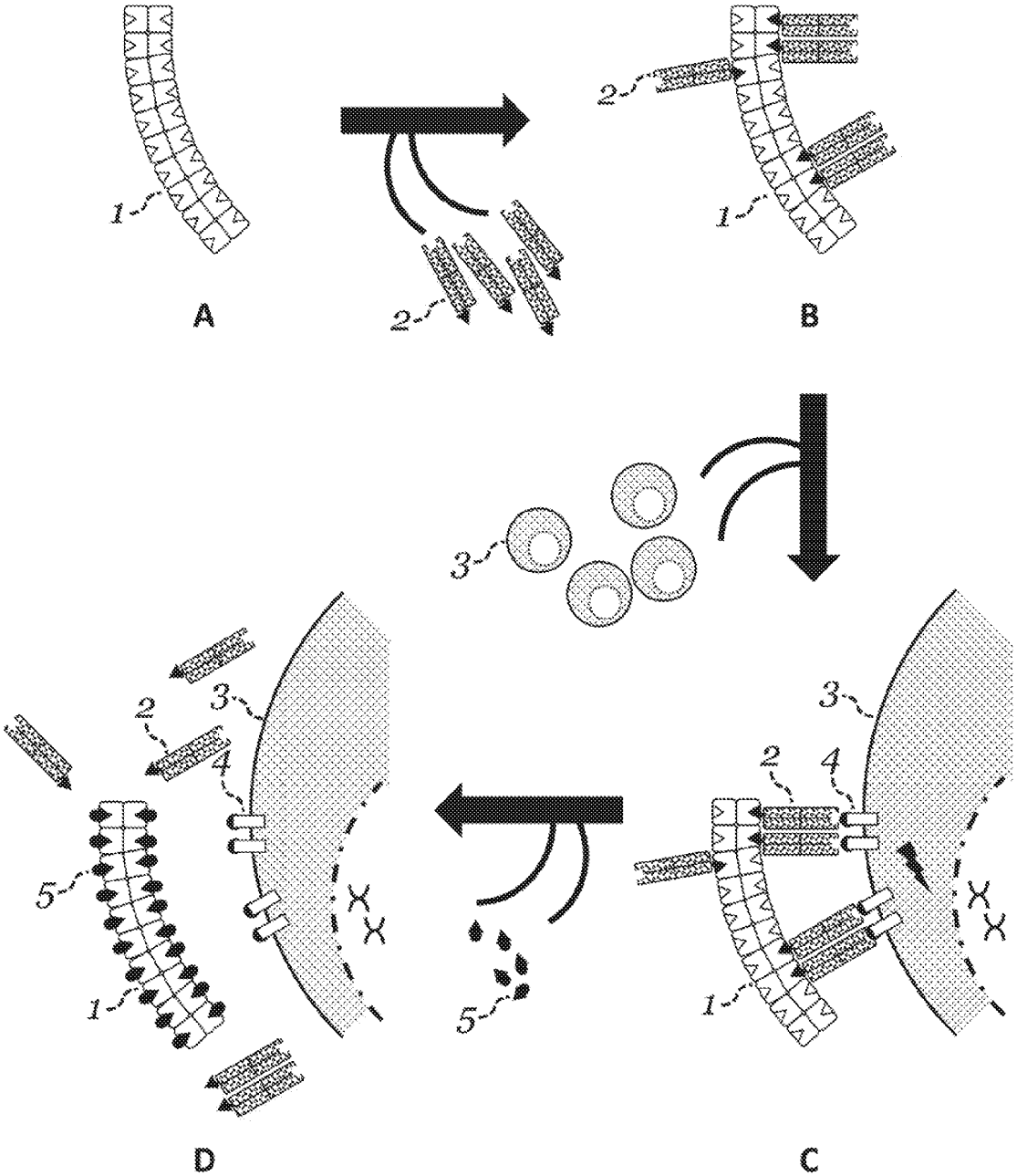
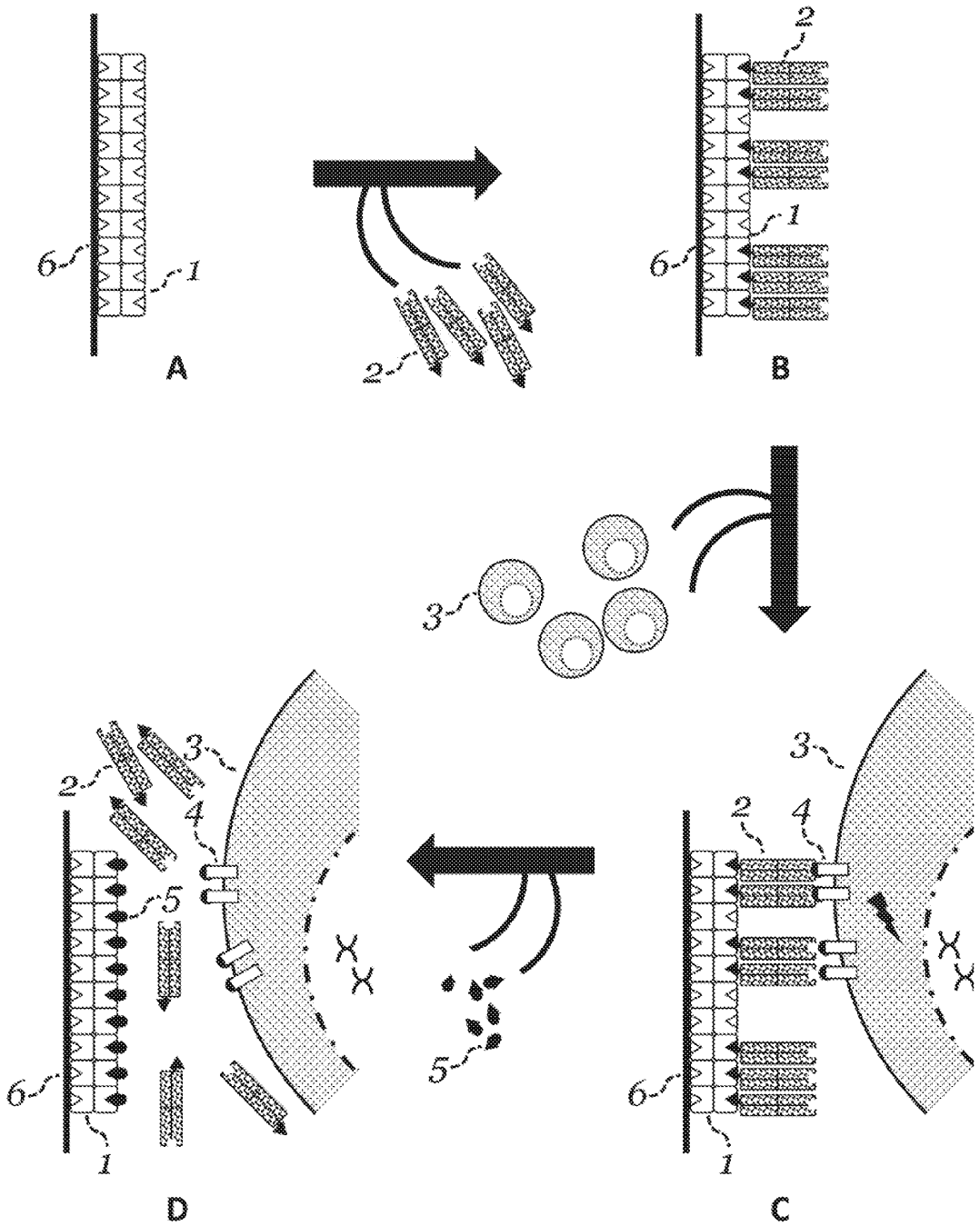


FIG. 10



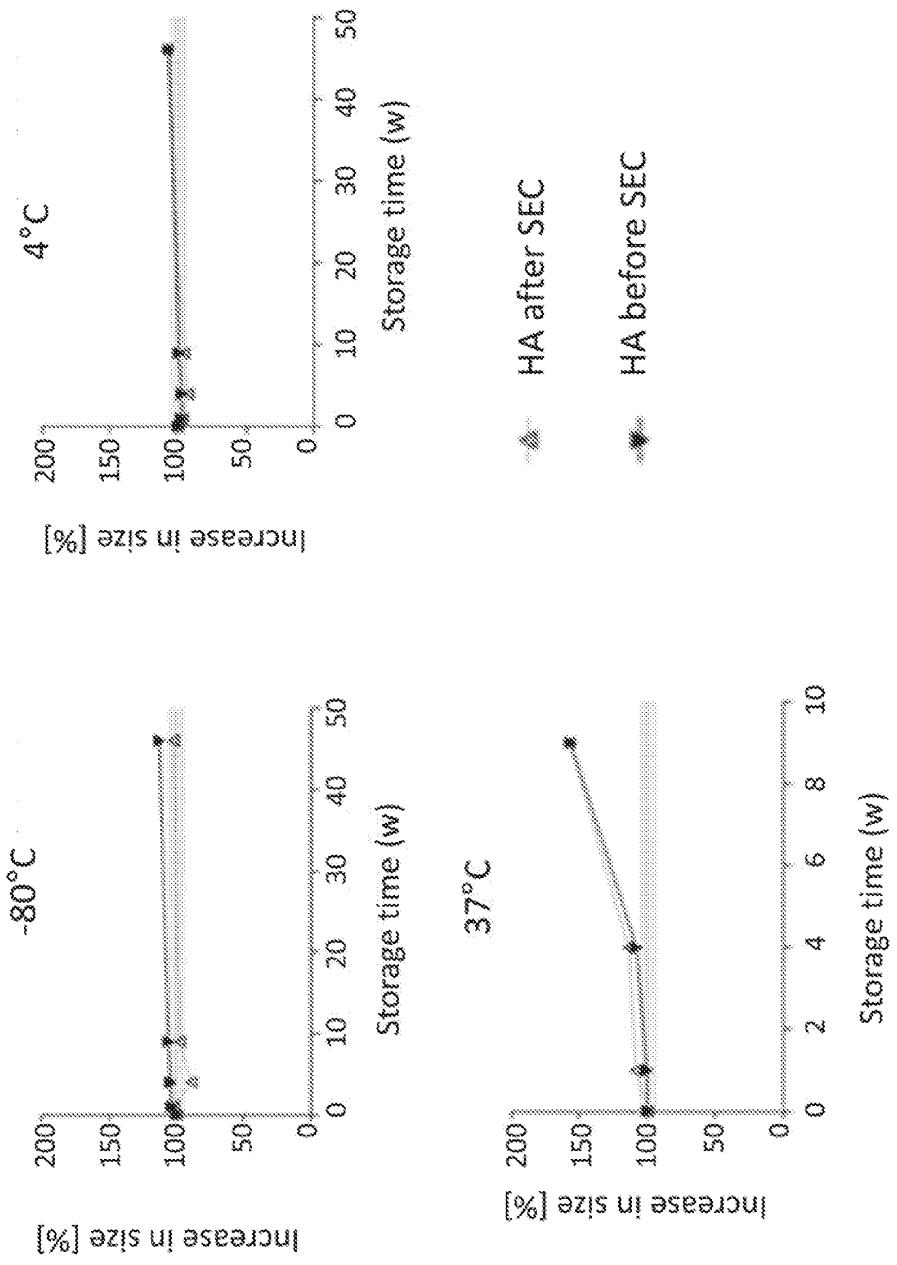

4°C
Increase in size [%]
200
150
100
50
0
0
10
20
30
40
50
Storage time (w)
HA after SEC
HA before SEC
-80°C
Increase in size [%]
200
150
100
50
0
0
10
20
30
40
50
Storage time (w)
37°C
Increase in size [%]
200
150
100
50
0
0
2
4
6
8
10
Storage time (w)

FIG. 11

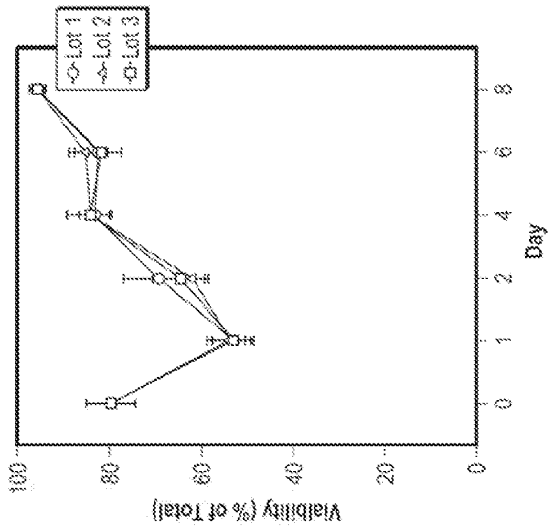


FIG. 12B

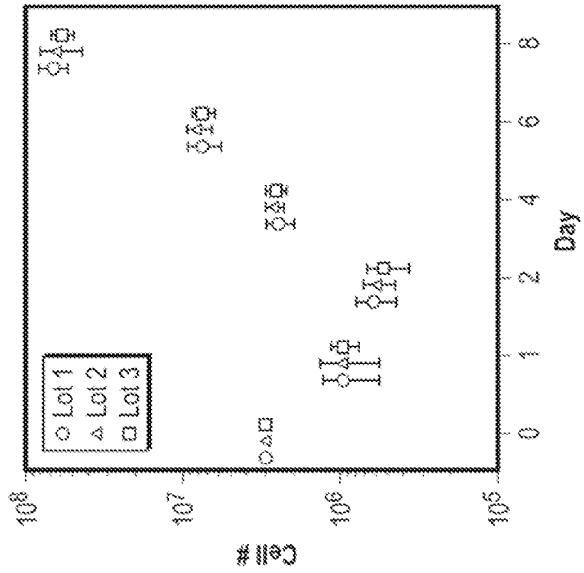


FIG. 12A

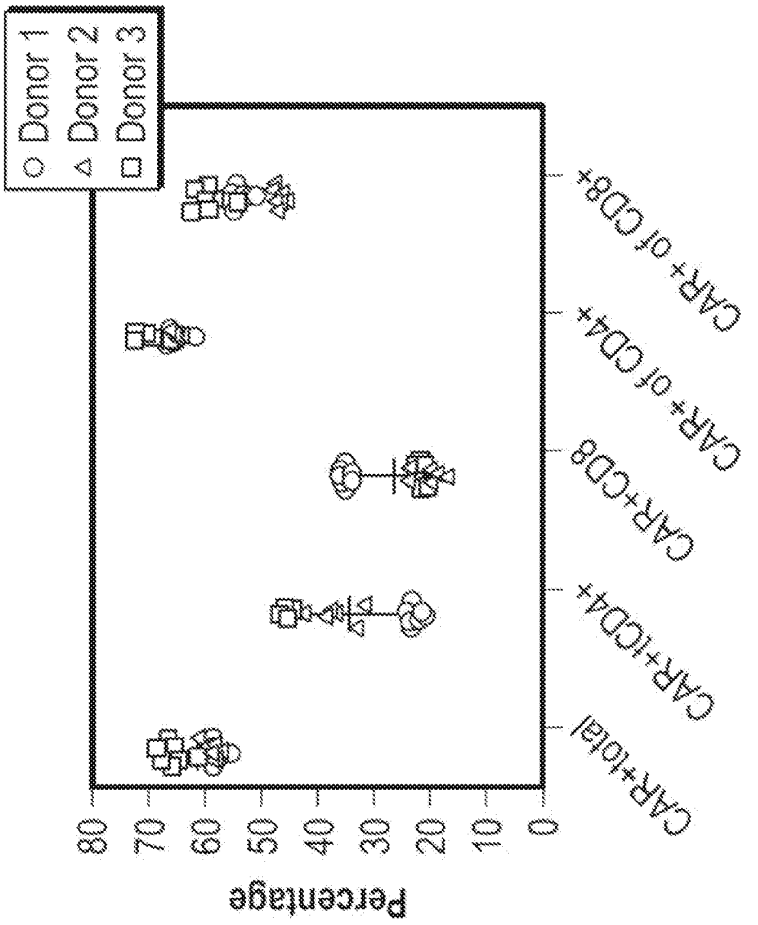
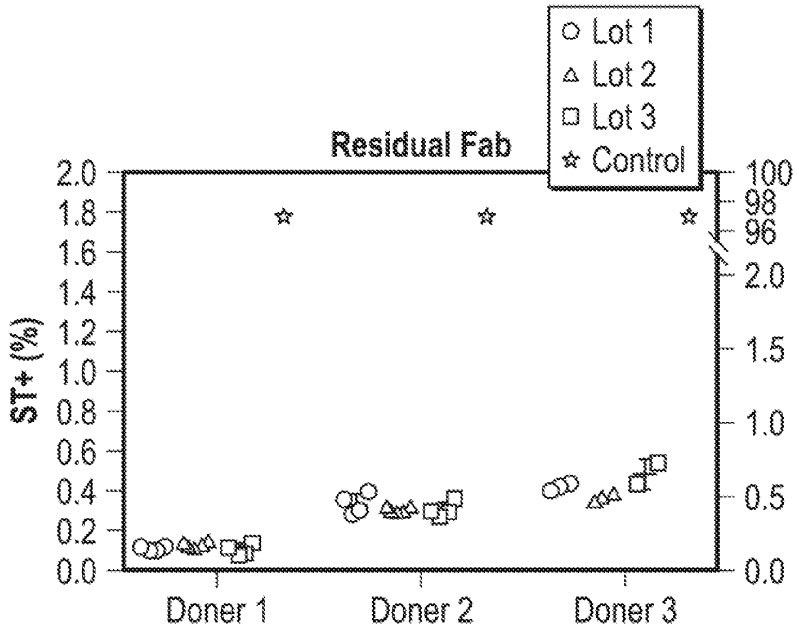

Donor 1
Donor 2
Donor 3
CAR+ of CD8+
CAR+ of CD4+
CAR+CD8
CAR+CD4+
CAR+total
80
70
60
50
40
30
20
10
0
Percentage

FIG. 13


Residual Fab
Lot 1
Lot 2
Lot 3
Control
ST+ (%)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
100
98
96
2.0
1.5
1.0
0.5
0.0
Doner 1
Doner 2
Doner 3

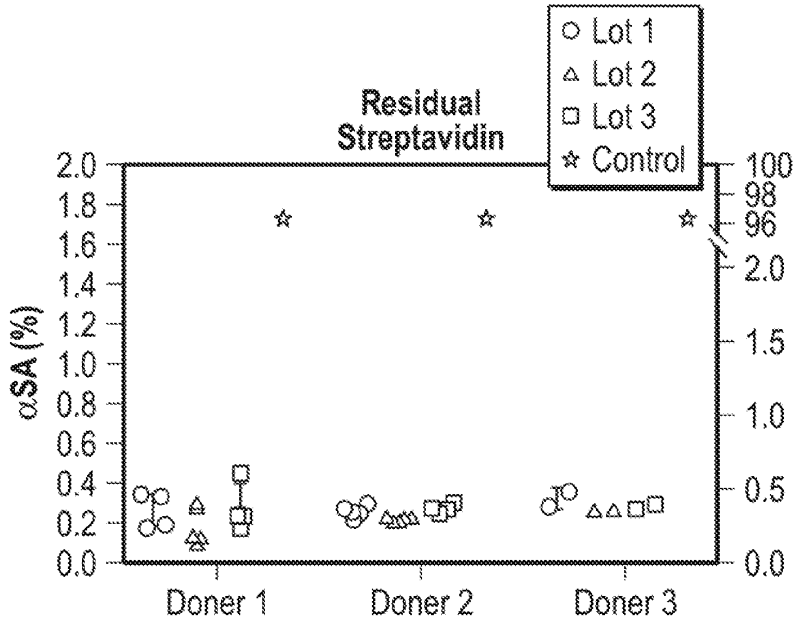

Residual Streptavidin
Lot 1
Lot 2
Lot 3
Control
αSA (%)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
100
98
96
2.0
1.5
1.0
0.5
0.0
Doner 1
Doner 2
Doner 3

FIG. 14

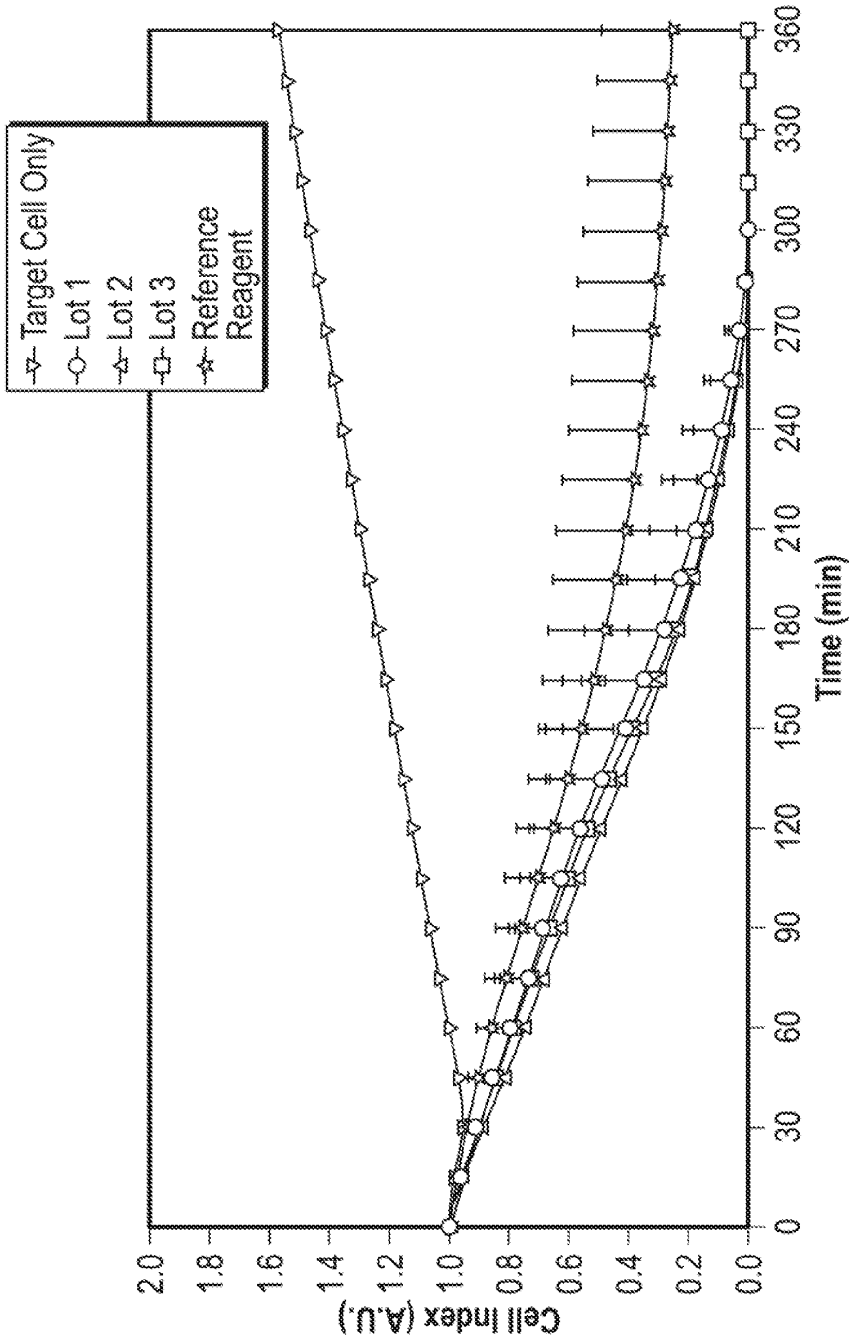

Target Cell Only
Lot 1
Lot 2
Lot 3
Reference Reagent
Cell Index (A.U.)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
30
60
90
120
150
180
210
240
270
300
330
360
Time (min)

FIG. 15