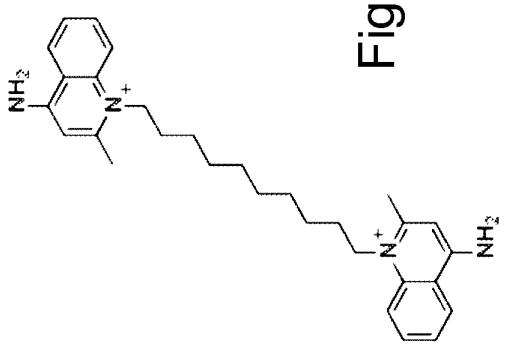


Figure 1

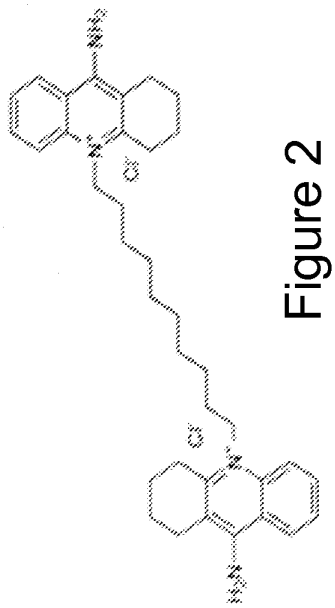


Figure 2

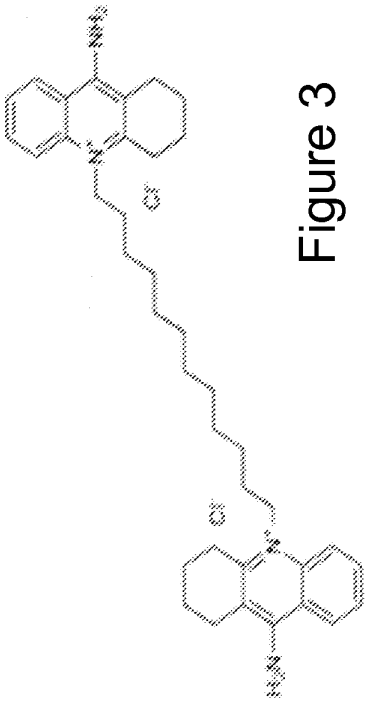


Figure 3

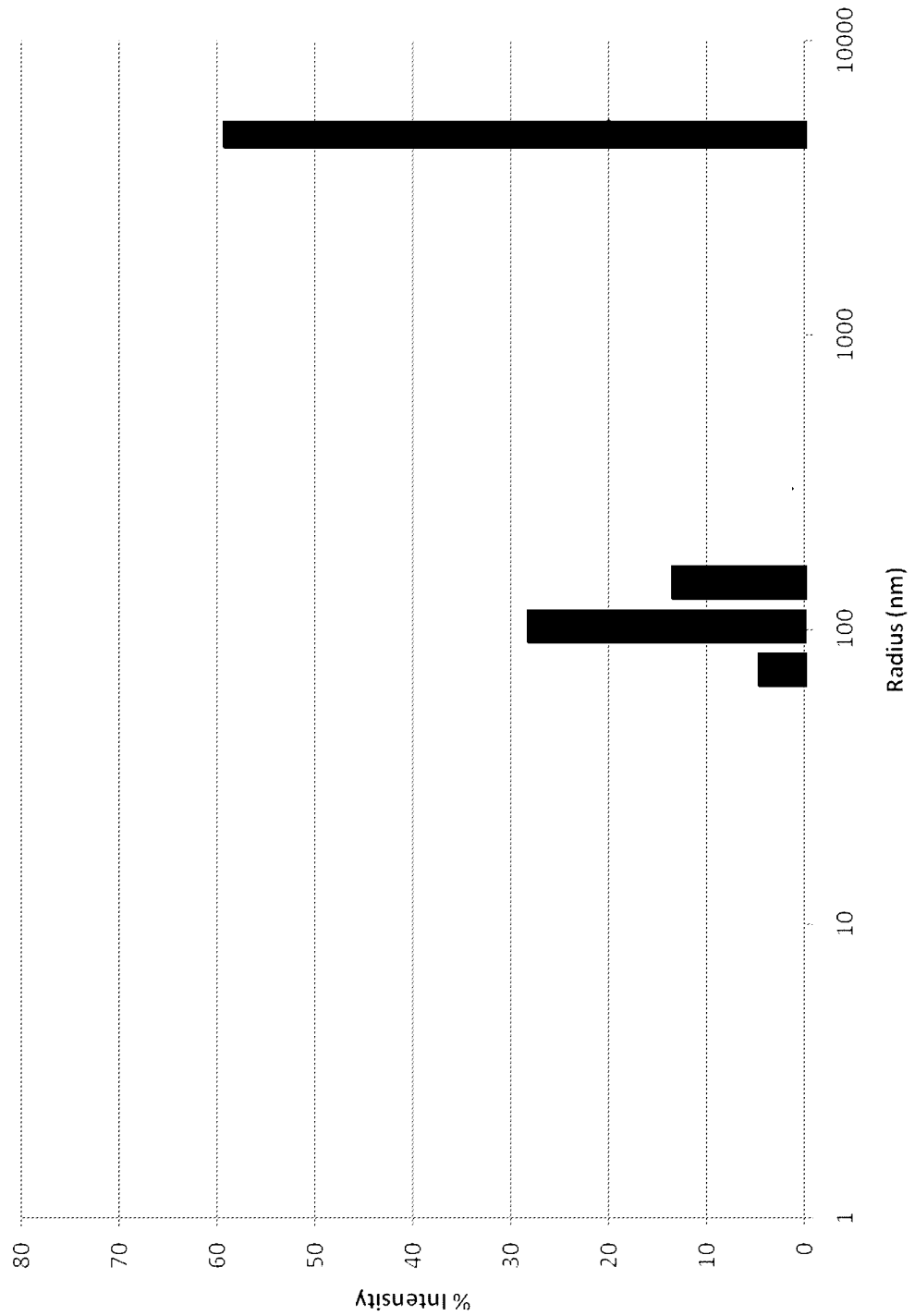


Figure 4

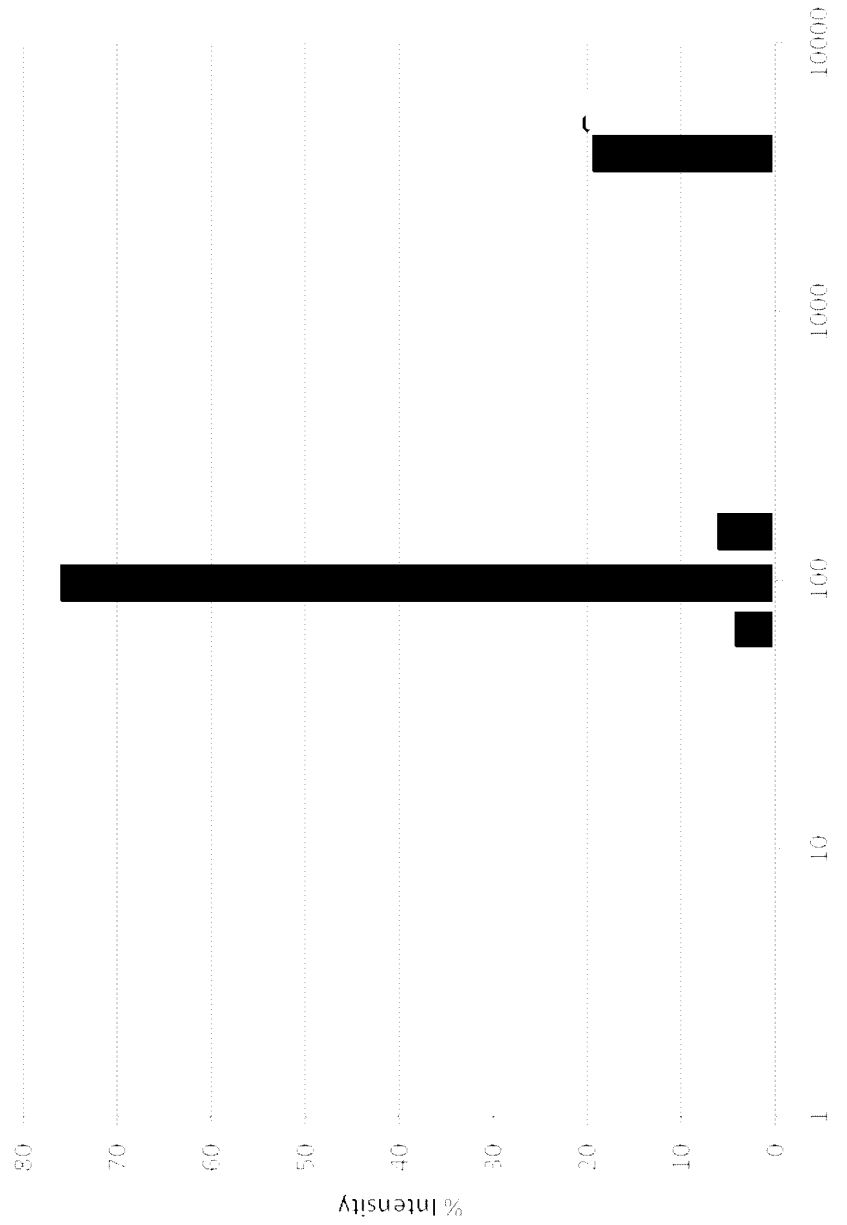


Figure 5

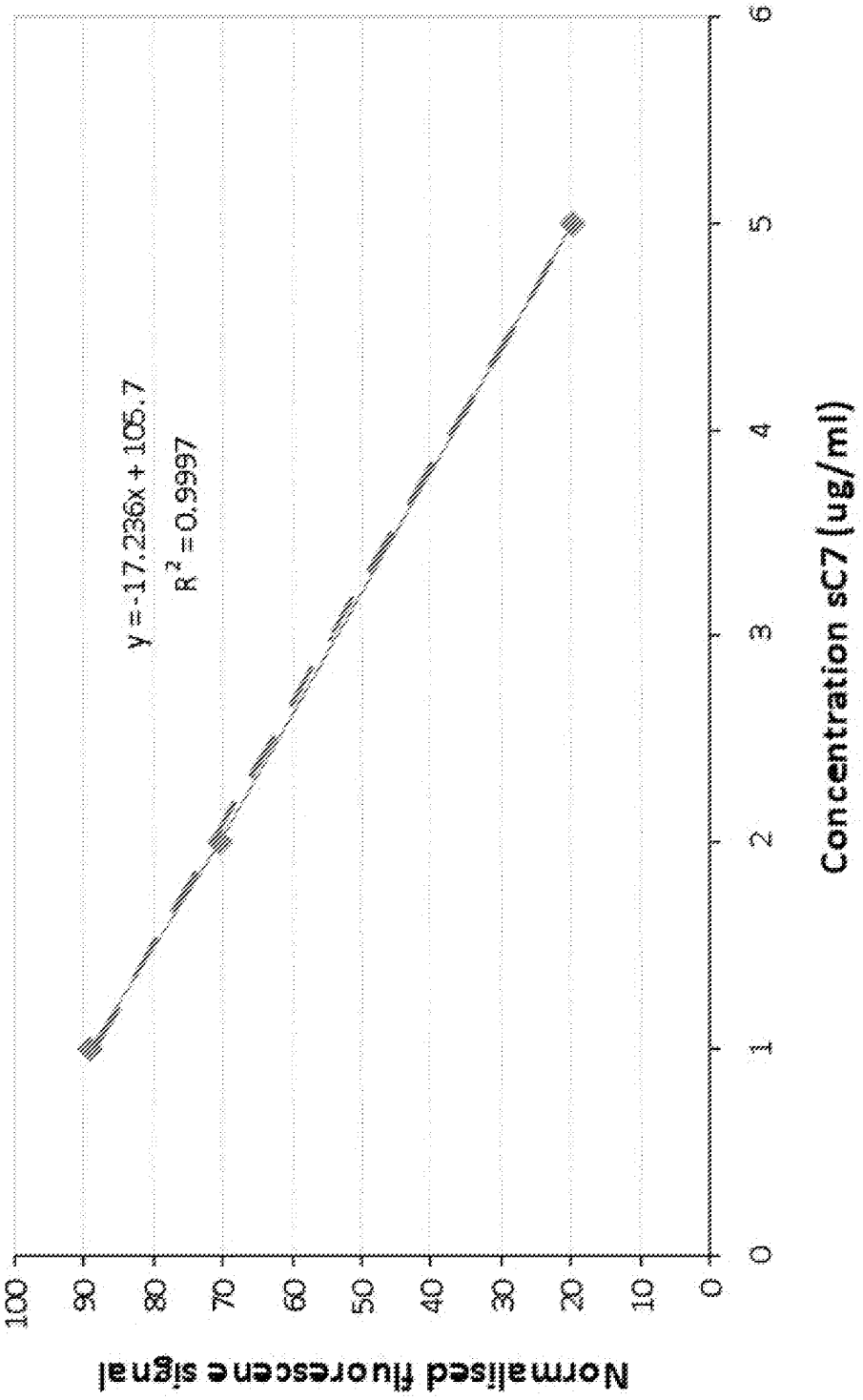

Normalised fluorescence signal
100
90
80
70
60
50
40
30
20
10
0
0
1
2
3
4
5
6
Concentration sC7 (ug/ml)
y = -17.236x + 105.7
R² = 0.9997

Figure 6

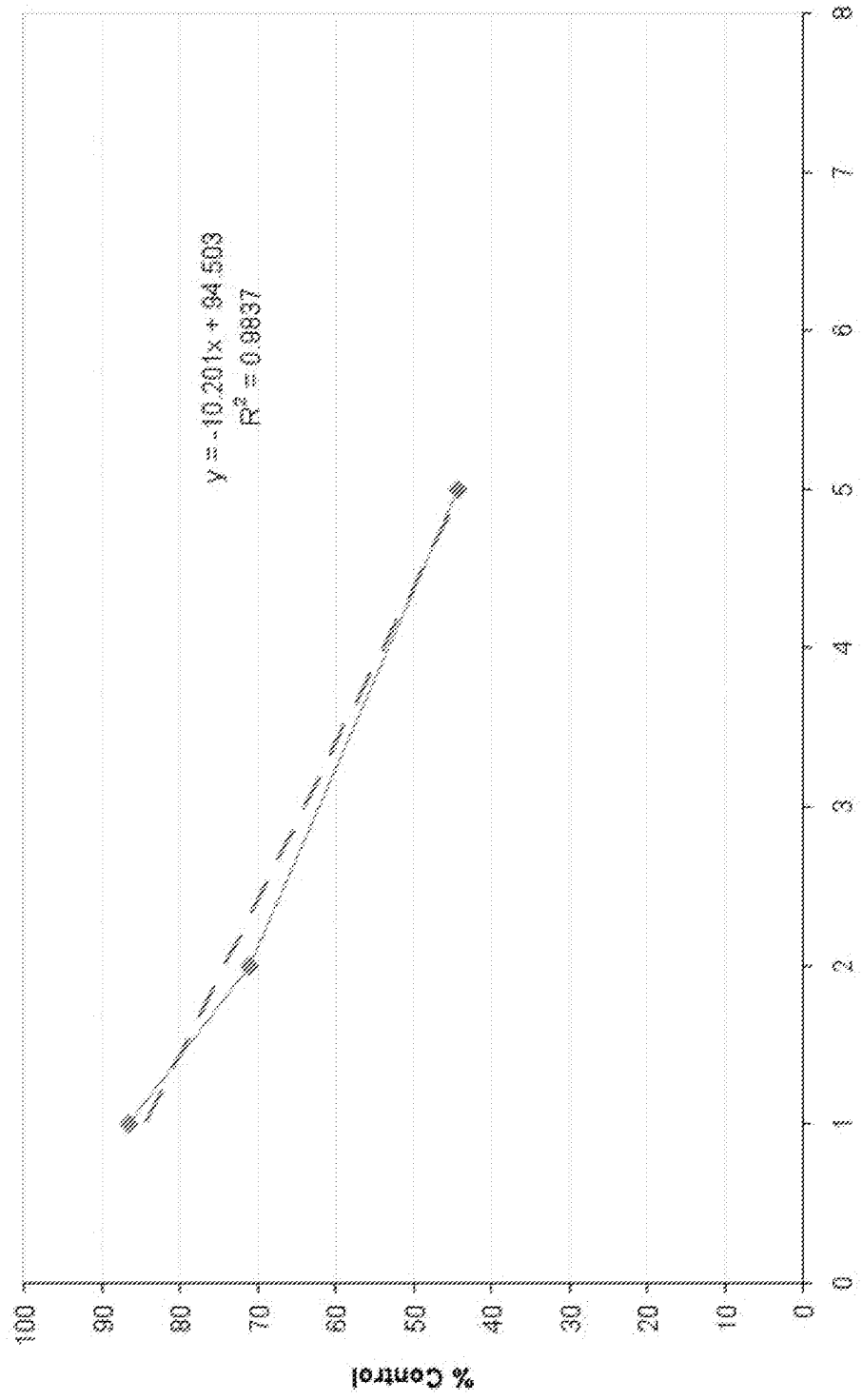

y = -10.201x + 94.503
R² = 0.9837
% Control
ul sC7 1:10
0
10
20
30
40
50
60
70
80
90
100
1
2
3
4
5
6
7
8

Figure 7

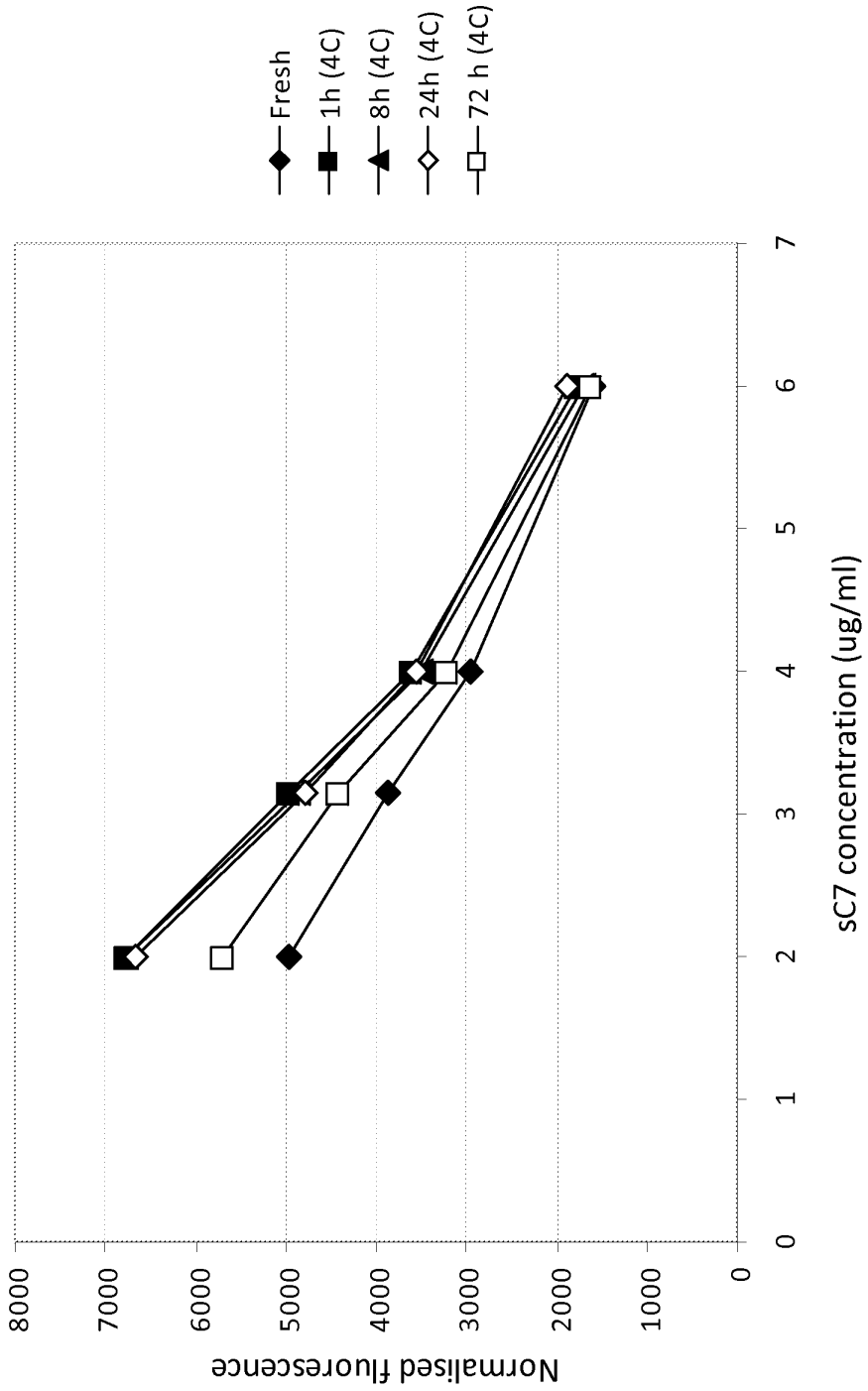

Fresh
1h (4C)
8h (4C)
24h (4C)
72 h (4C)
Normalised fluorescence
8000
7000
6000
5000
4000
3000
2000
1000
0
0
1
2
3
4
5
6
7
sC7 concentration (ug/ml)

Figure 8

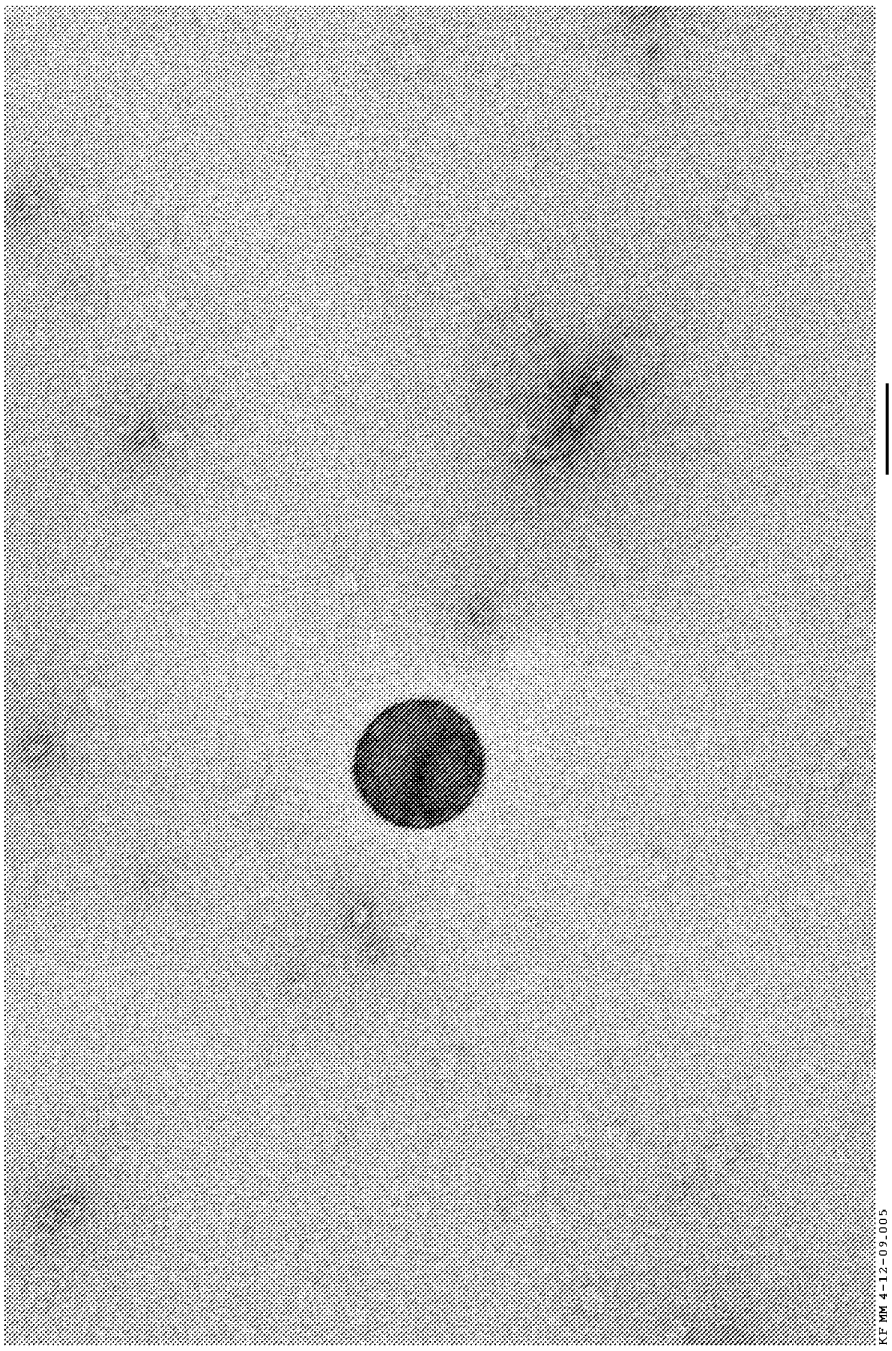

KF MM 4-12-09_005
C12 sig
2% UA
11:25:40 a 12/04/09
Microscopist: Kim Findlay
100 nm
HV=200.0kV
Direct Mag: 29000x
John Innes Centre

Figure 9A

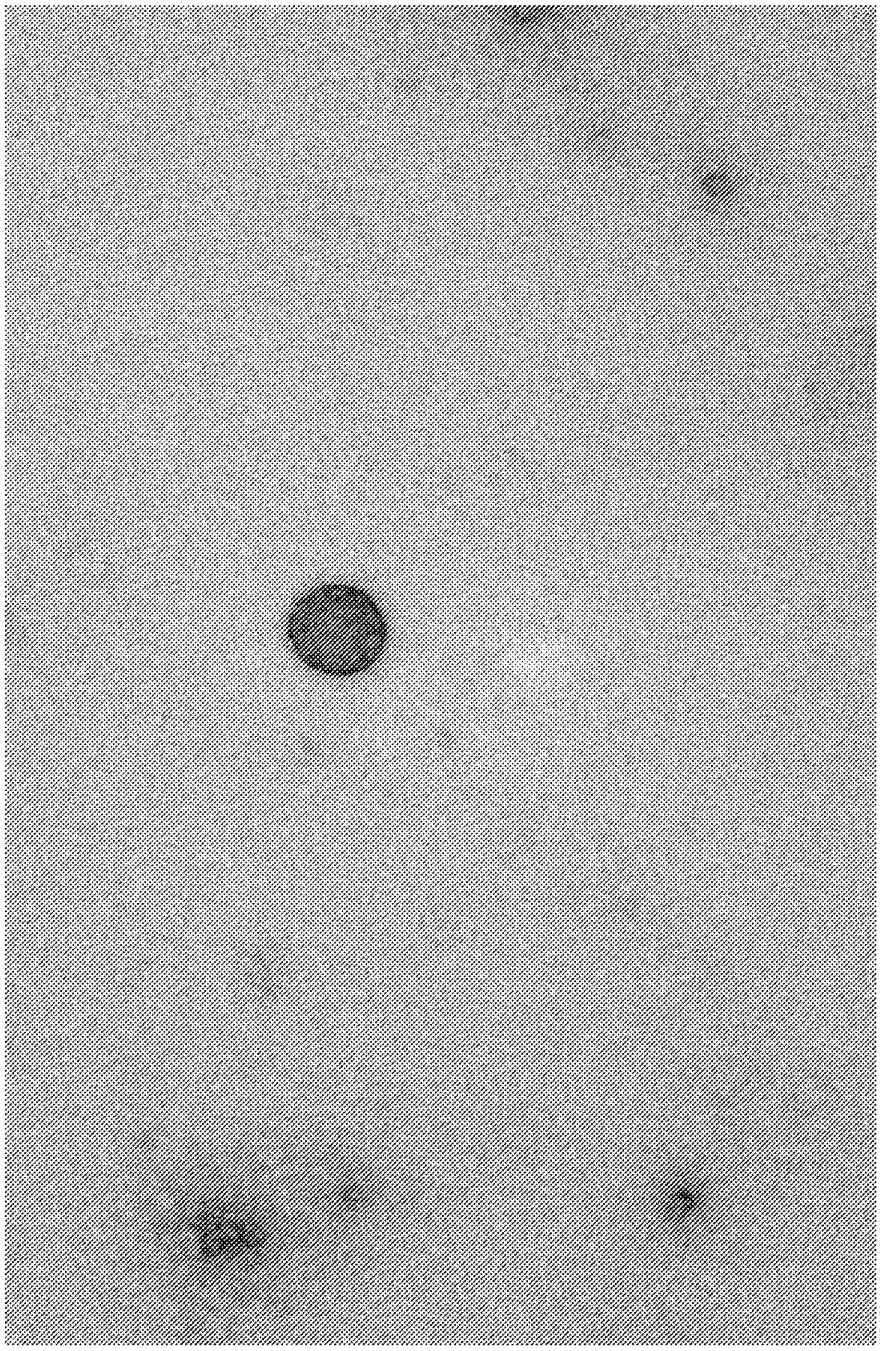

KF MM 4-12-09.002
C12 sig
2% UA
11:22:09 a 12/04/09
Microscopist: Kim Findlay
100 nm
HV=200.0kV
Direct Mag: 29000x
John Innes Centre

Figure 9B

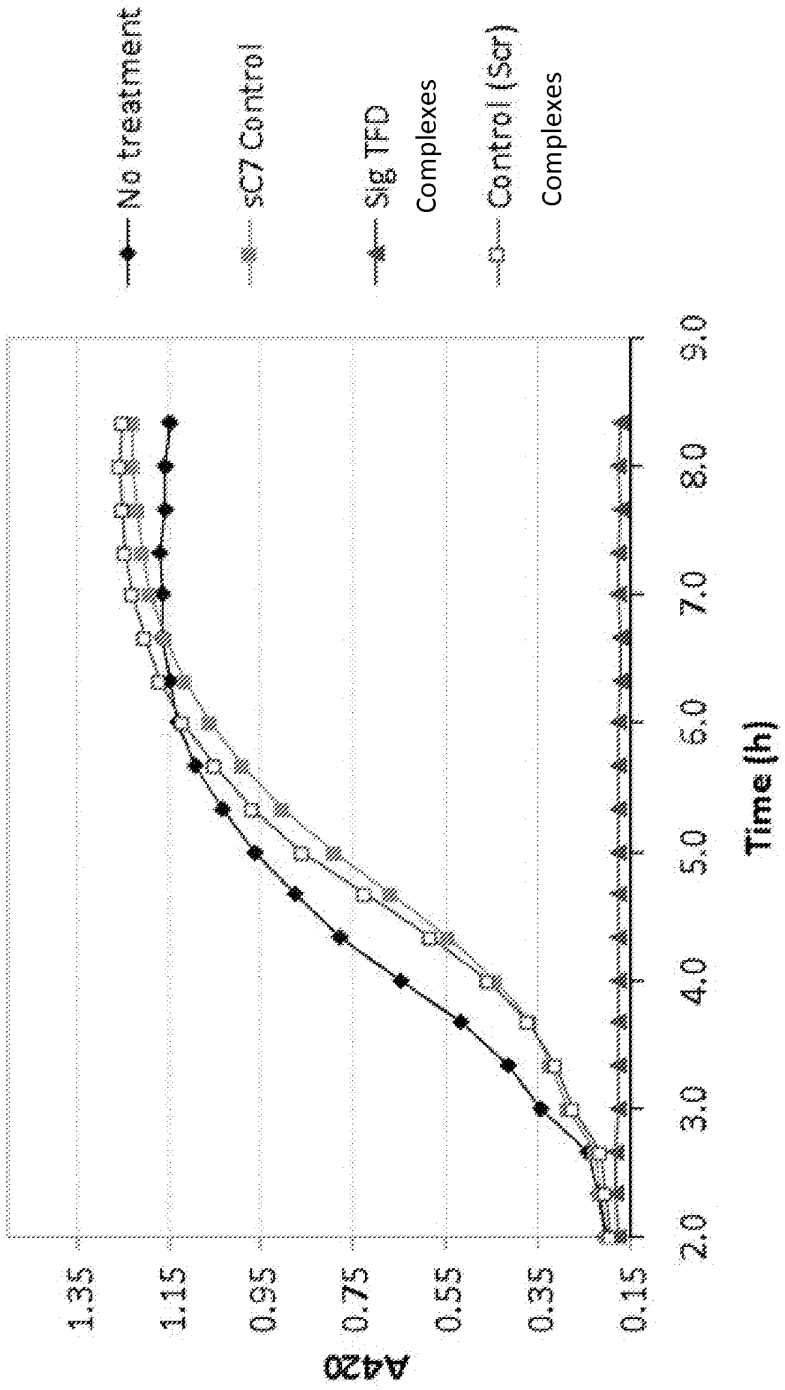

No treatment
sC7 Control
Sig TFD Complexes
Control (Scr) Complexes
A420
1.35
1.15
0.95
0.75
0.55
0.35
0.15
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
Time (h)

Figure 10

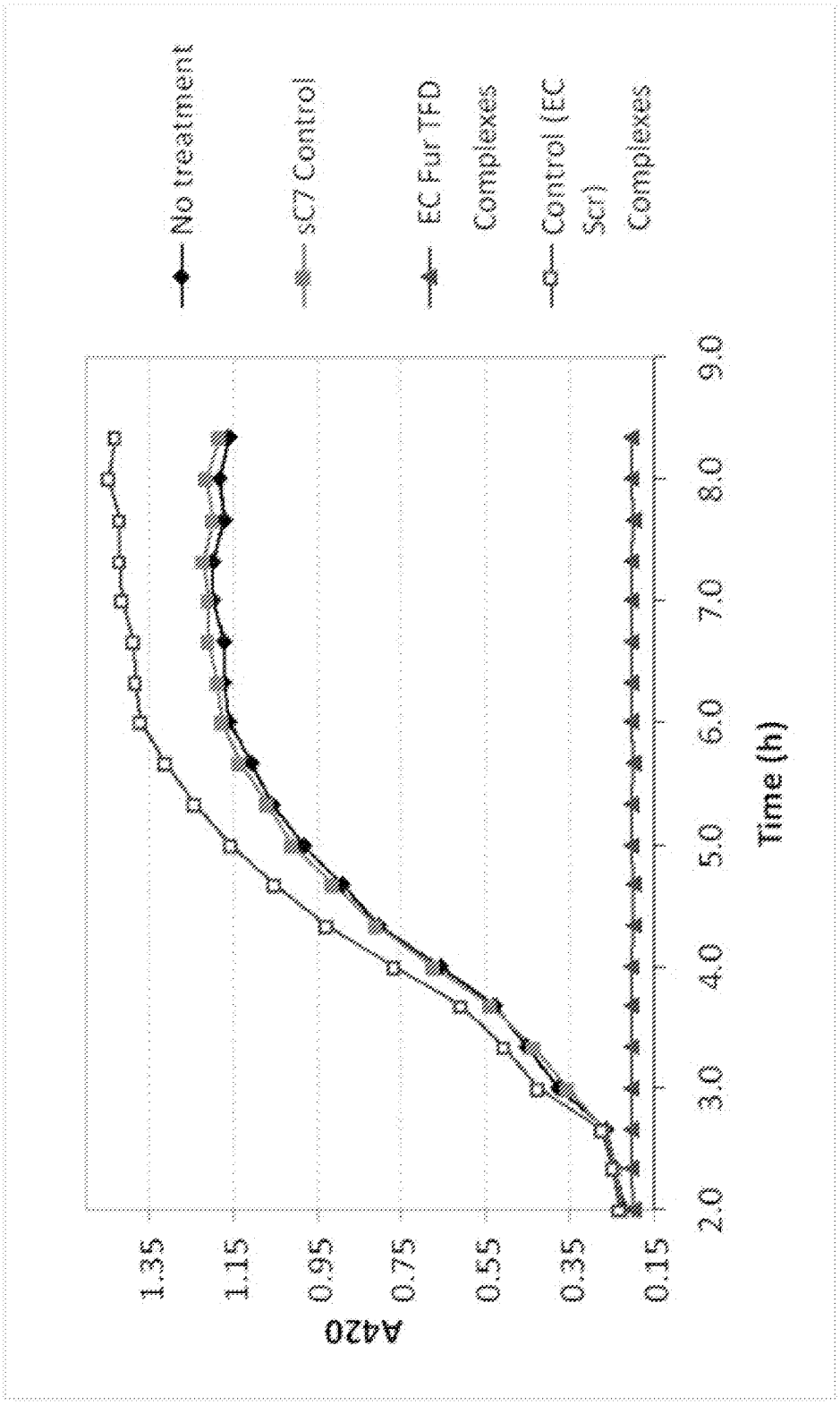

No treatment
sC7 Control
EC Fur TFD Complexes
Control (EC Scr) Complexes
A420
1.35
1.15
0.95
0.75
0.55
0.35
0.15
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
Time (h)

Figure 11

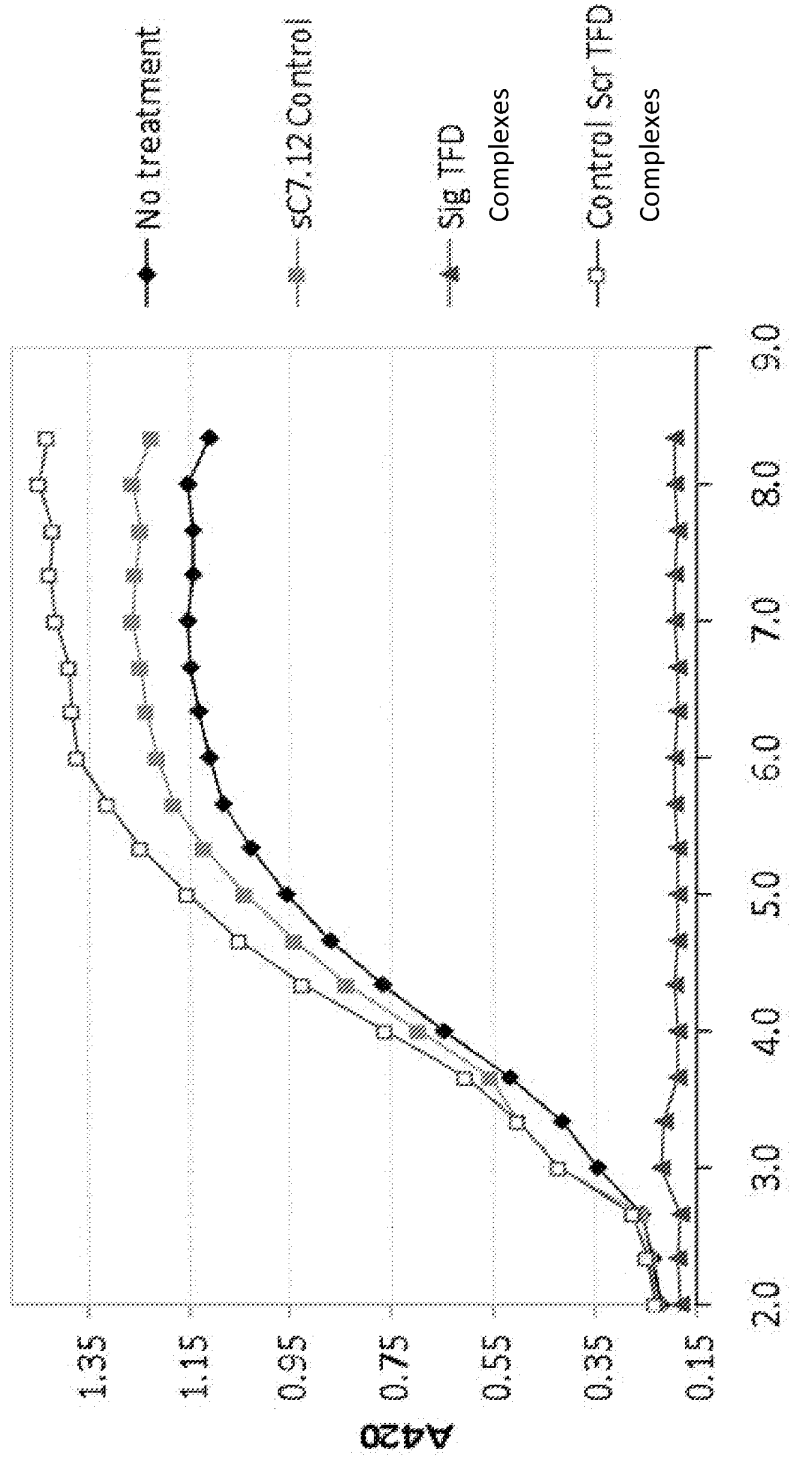

No treatment
sC7.12 Control
Sig TFD Complexes
Control Scr TFD Complexes
A420
1.35
1.15
0.95
0.75
0.55
0.35
0.15
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
Time (h)

Figure 12

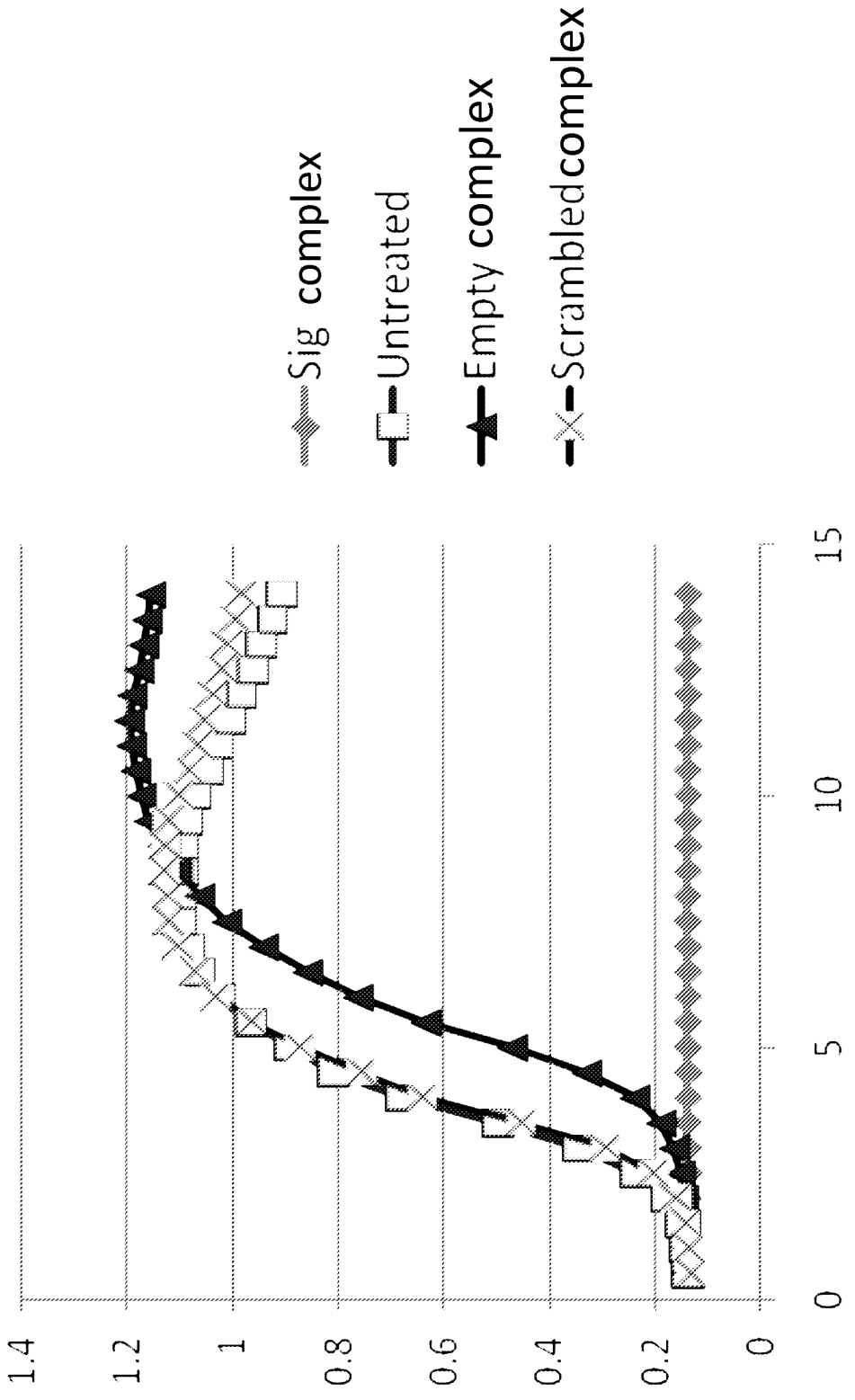

Sig complex
Untreated
Empty complex
Scrambled complex
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
5
10
15

Figure 13

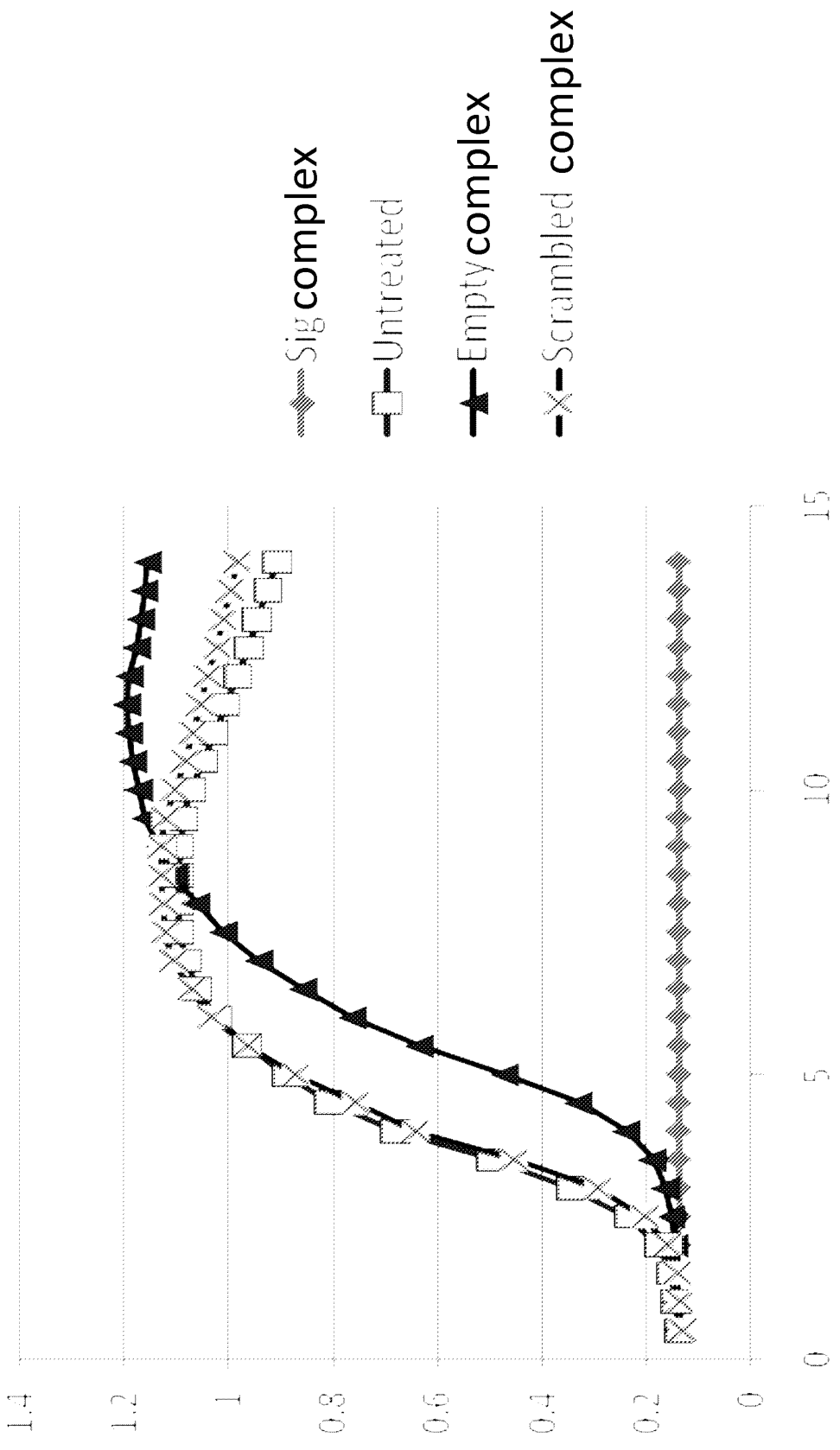

Sig complex
Untreated
Empty complex
Scrambled complex
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
5
10
15

Figure 14

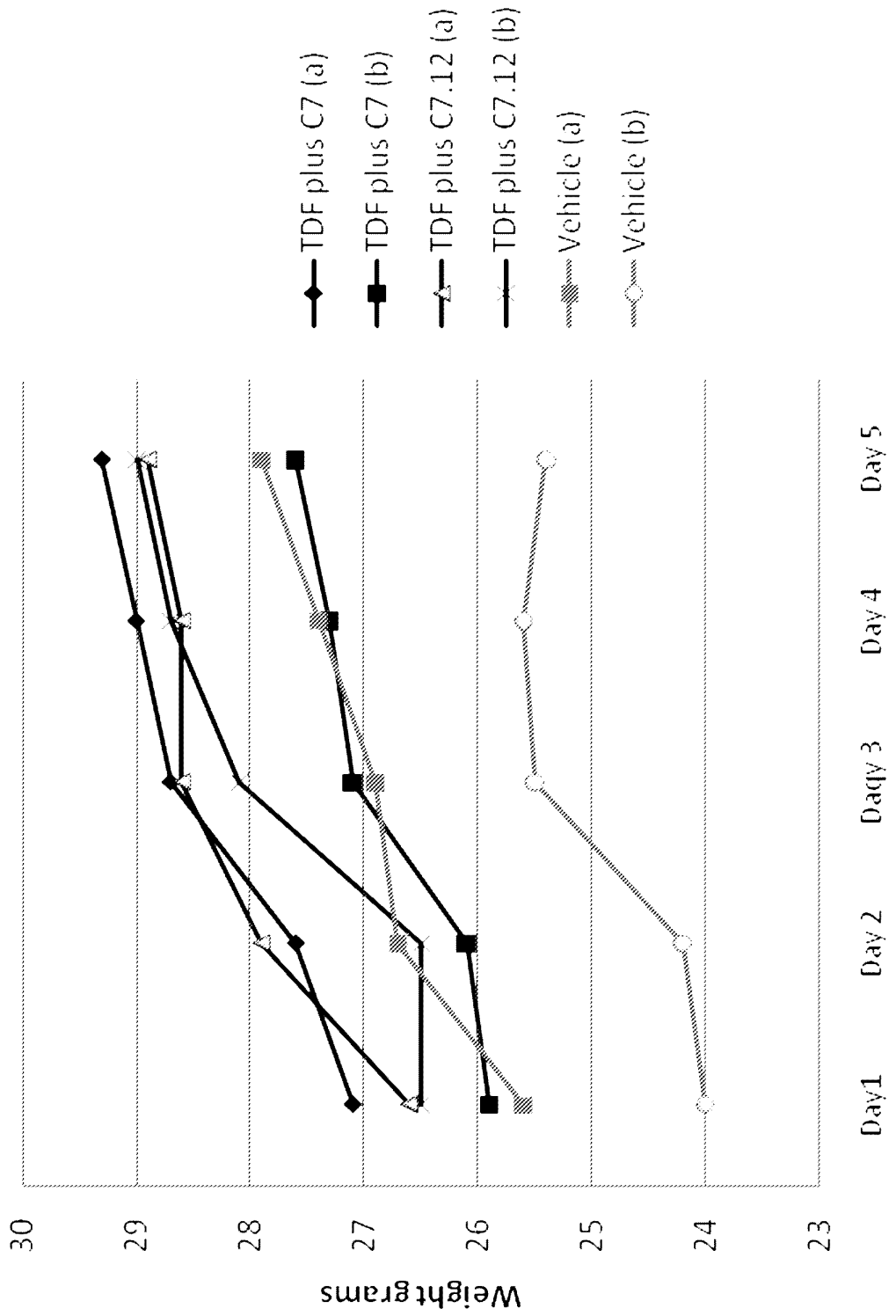

TDF plus C7 (a)
TDF plus C7 (b)
TDF plus C7.12 (a)
TDF plus C7.12 (b)
Vehicle (a)
Vehicle (b)
Weight grams
30
29
28
27
26
25
24
23
Day1
Day 2
Daqy 3
Day 4
Day 5

Figure 15

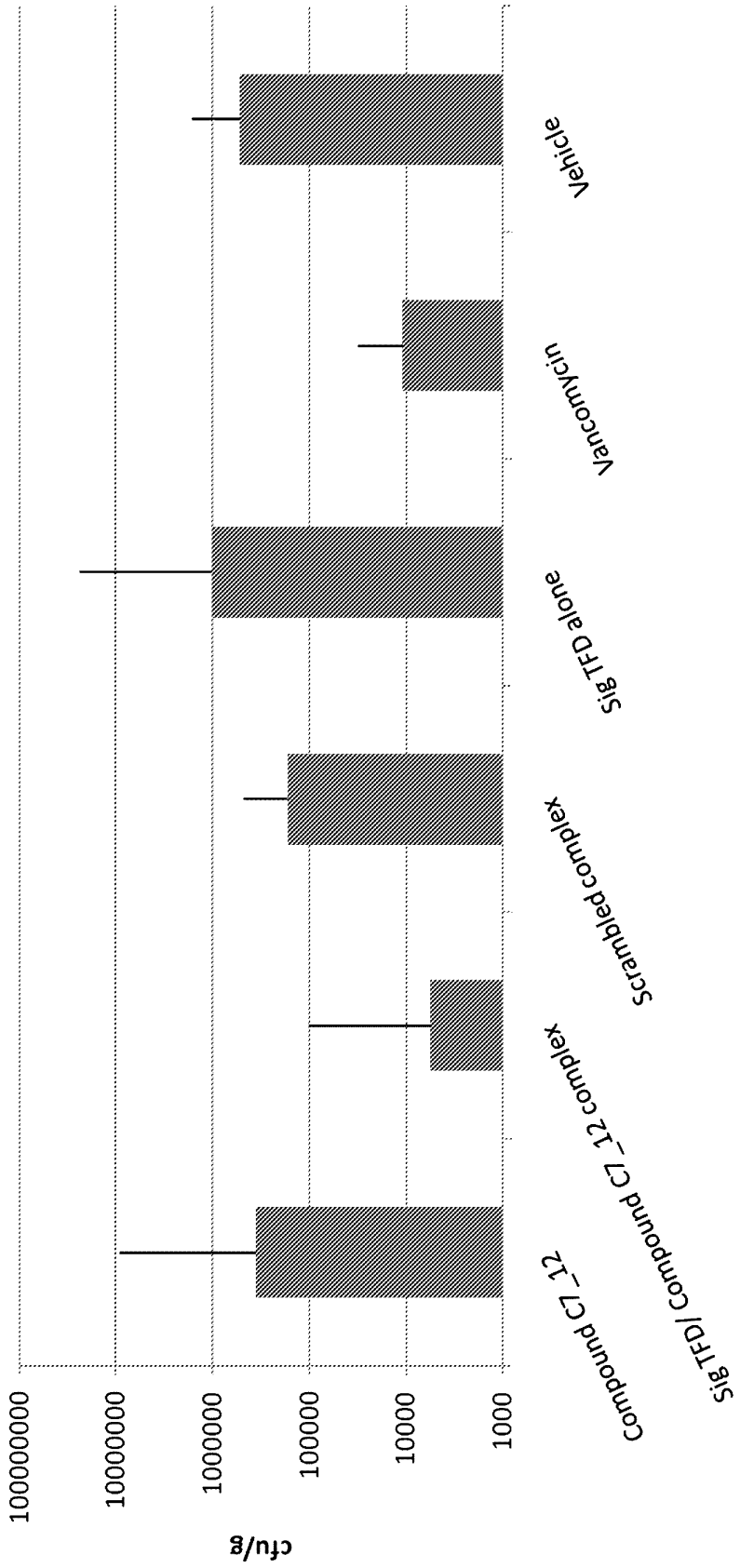

100000000
10000000
1000000
100000
10000
1000
cfu/g
Compound C7_12
SigTFD/ Compound C7_12 complex
Scrambled complex
SigTFD alone
Vancomycin
Vehicle

Figure 16

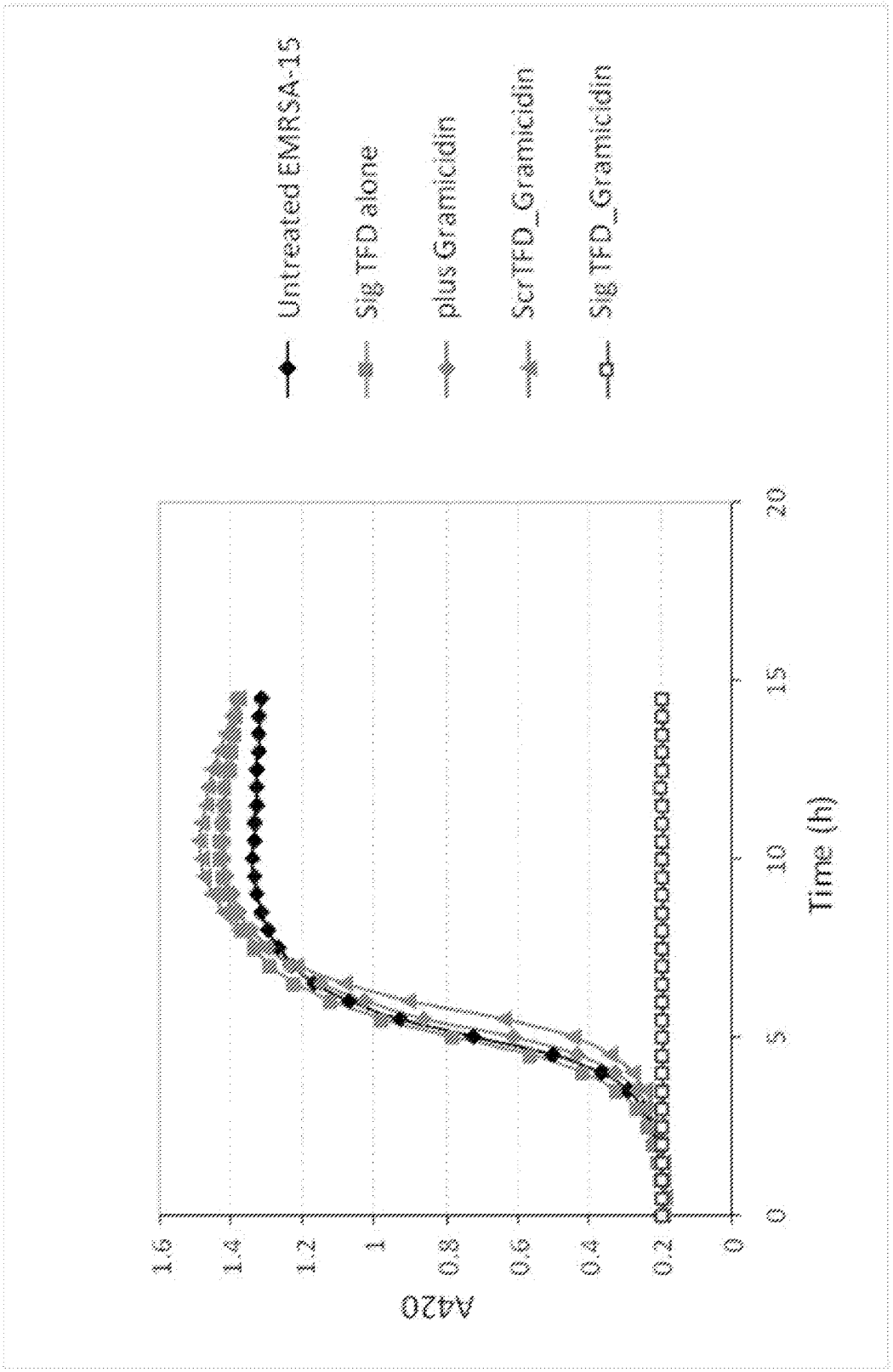

Untreated EMRSA-15
Sig TFD alone
plus Gramicidin
Scr TFD_Gramicidin
Sig TFD_Gramicidin
A420
Time (h)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
0
5
10
15
20

Figure 17

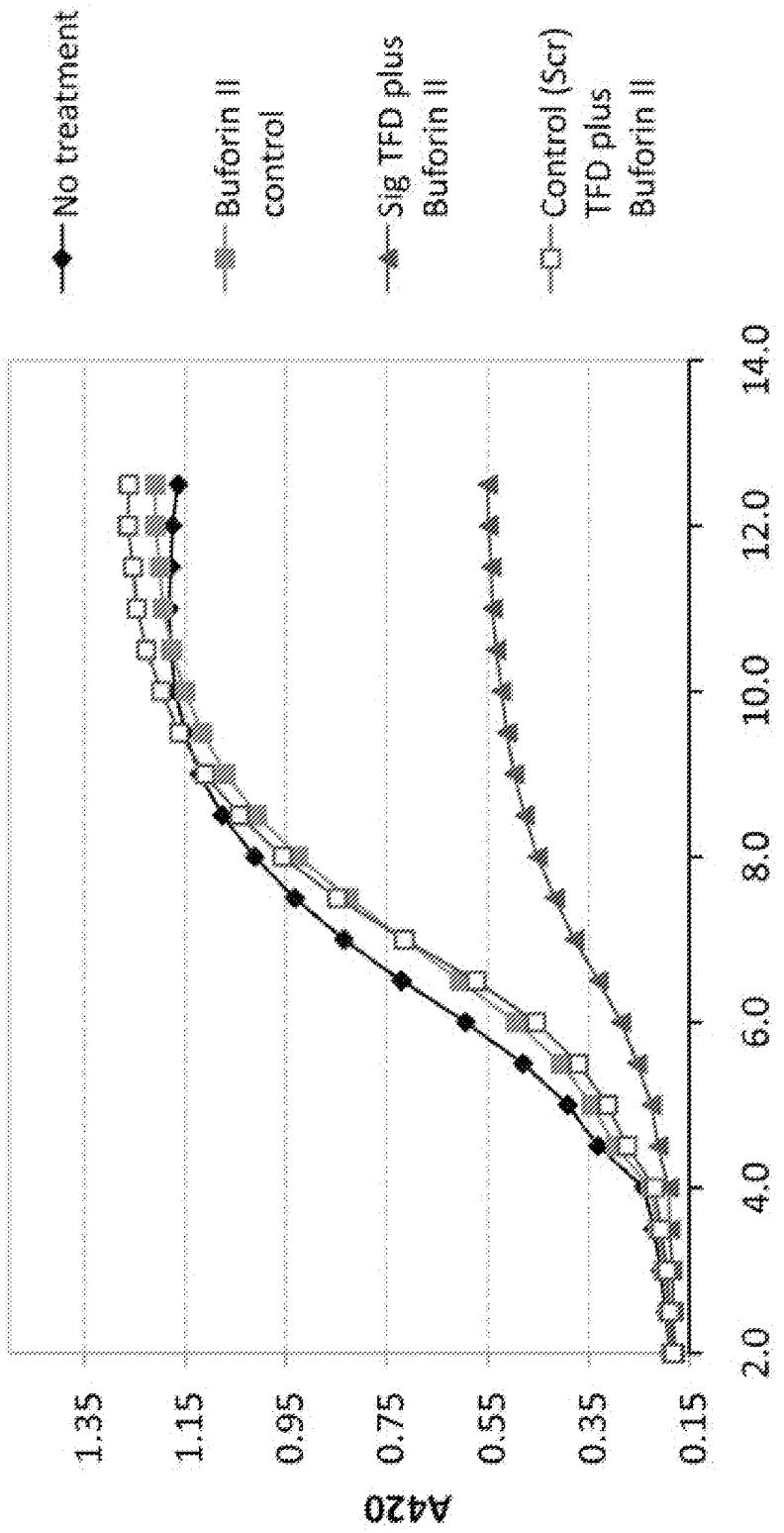
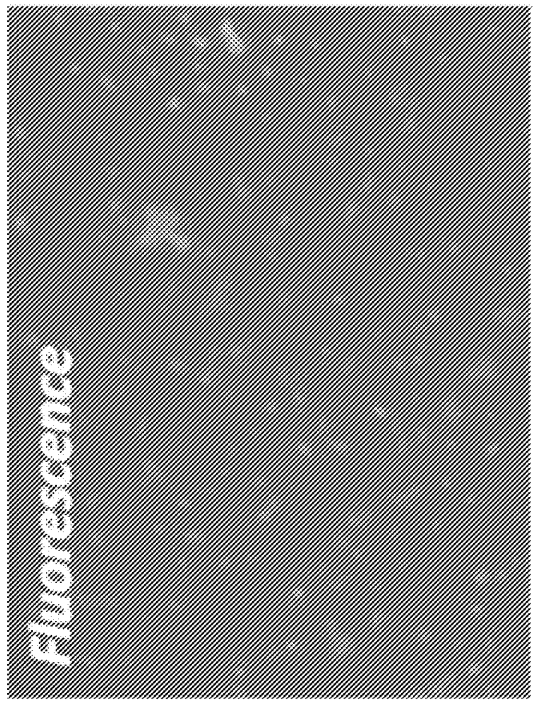
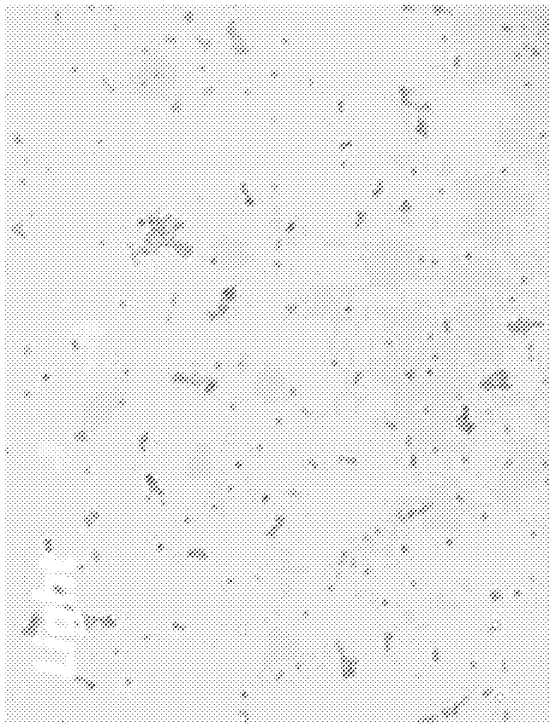

No treatment
Buforin II control
Sig TFD plus Buforin II
Control (Scr) TFD plus Buforin II
A420
1.35
1.15
0.95
0.75
0.55
0.35
0.15
2.0
4.0
6.0
8.0
10.0
12.0
14.0
Time (h)

Figure 18



Cells treated with a mixture of Buforin II-fluorescently labelled oligonucleotide



S. aureus

Figure 19

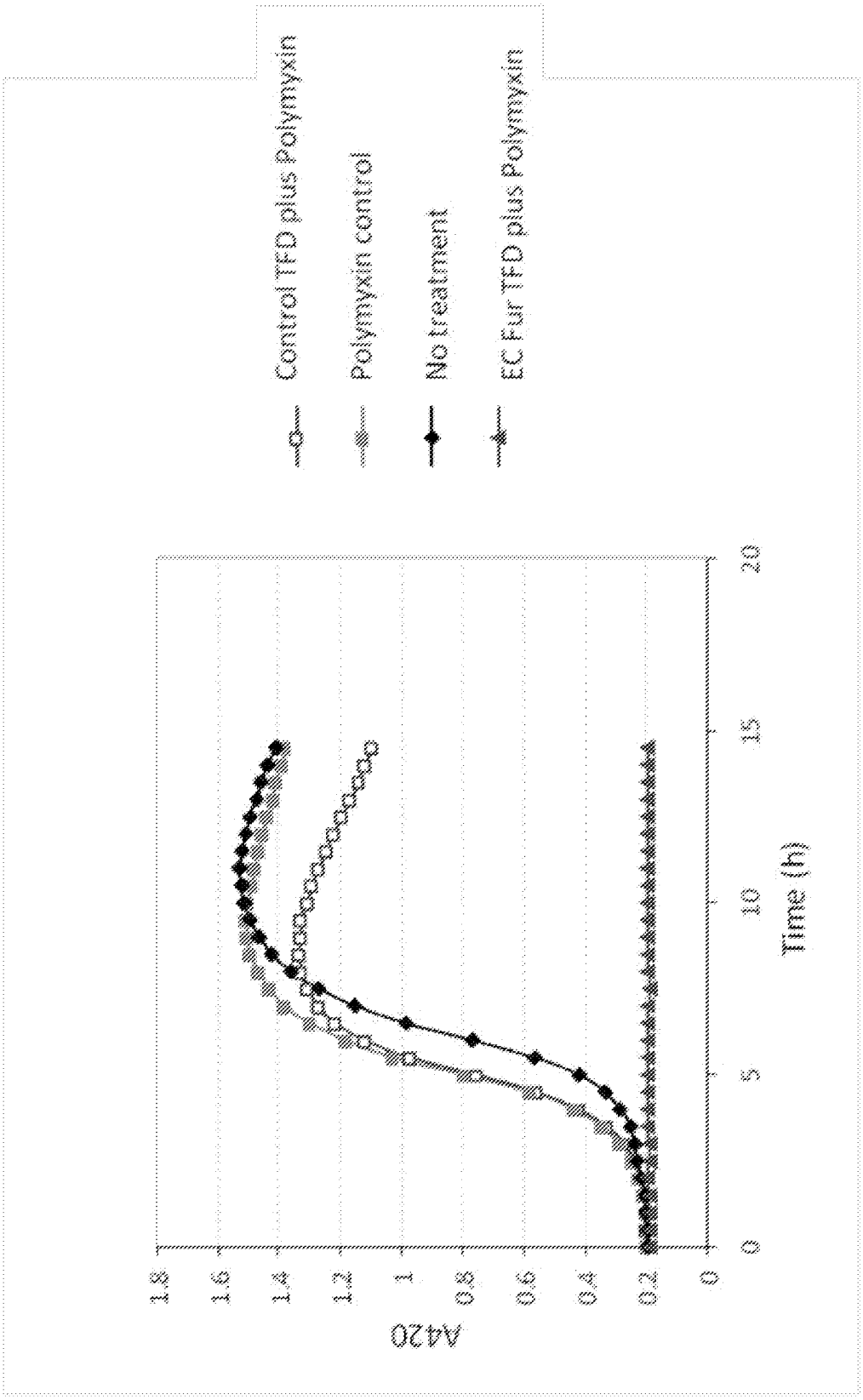
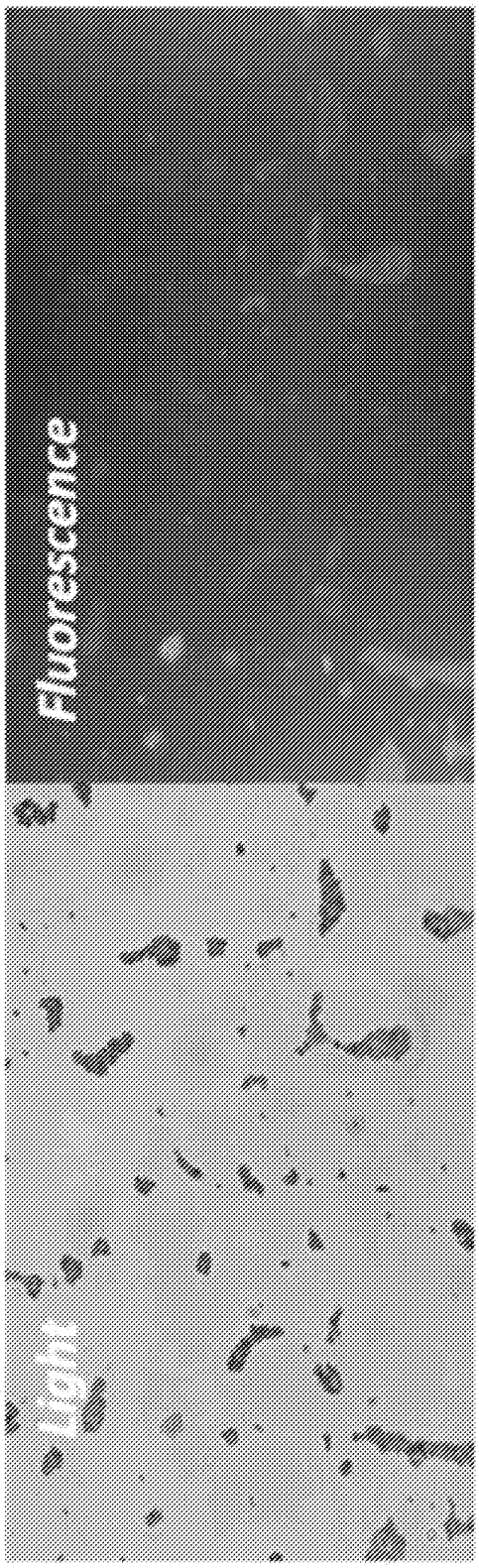

Control TFD plus Polymyxin
Polymyxin control
No treatment
EC Fur TFD plus Polymyxin
A420
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
5
10
15
20
Time (h)

Figure 20



S. aureus

Buforin II-derivatized complexes containing fluorescently-labelled oligonucleotides

Figure 21

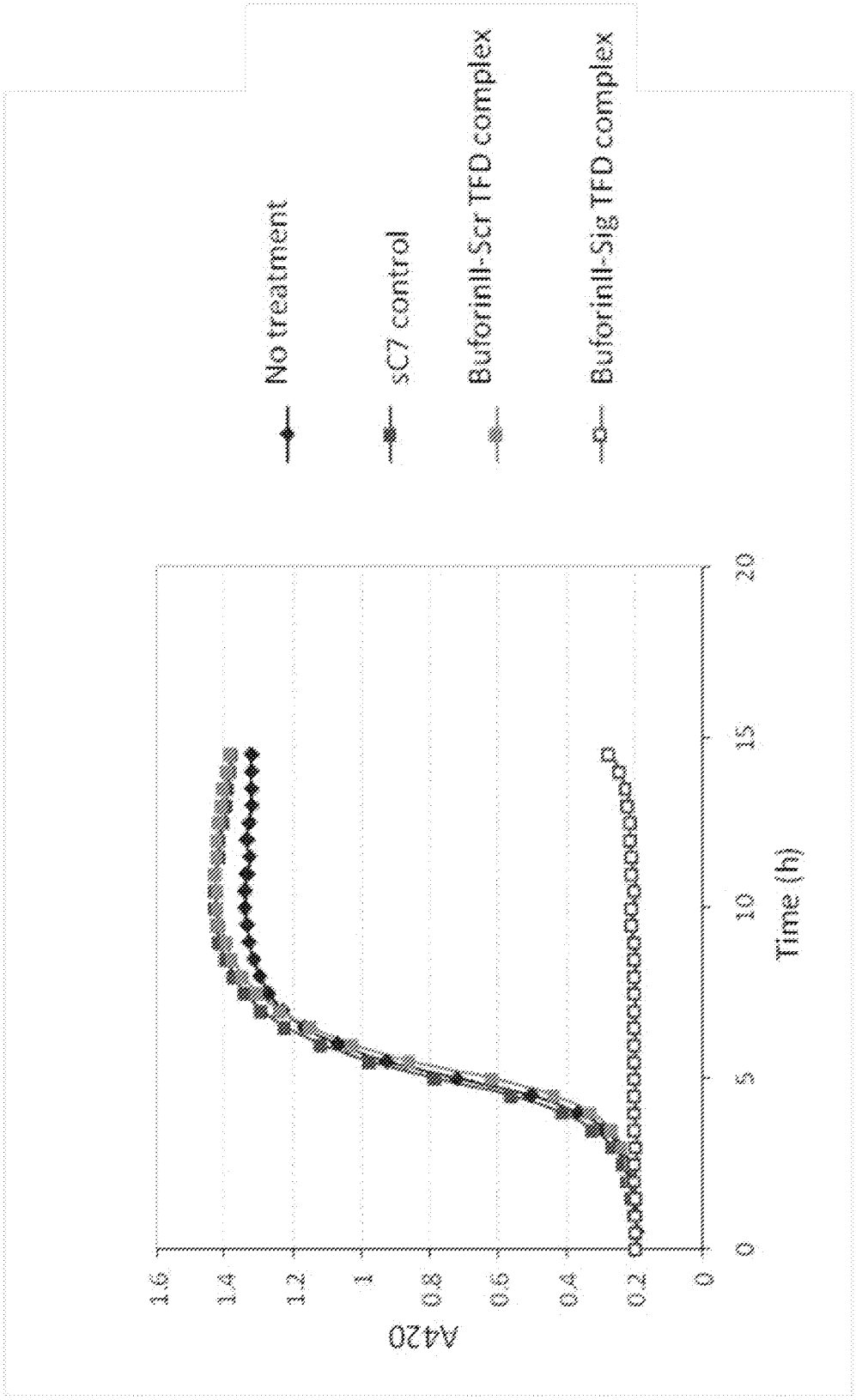

No treatment
sC7 control
Buforin II-Scr TFD complex
Buforin II-Sig TFD complex
A420
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
5
10
15
20
Time (h)

Figure 22