Figure 1

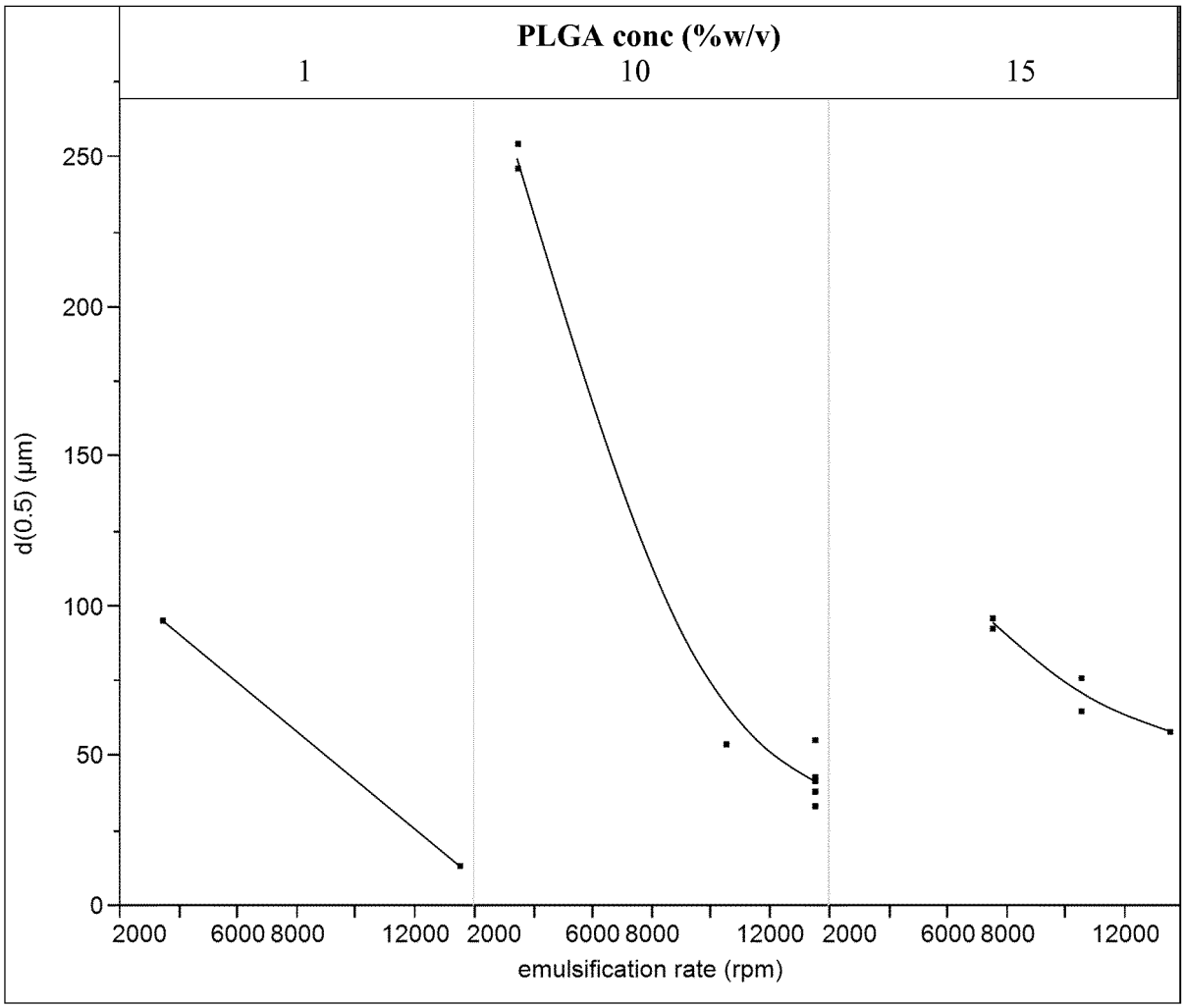

PLGA conc (%w/v)
1
10
15
d(0.5) (µm)
250
200
150
100
50
0
2000
6000 8000
12000
emulsification rate (rpm)

Figure 2

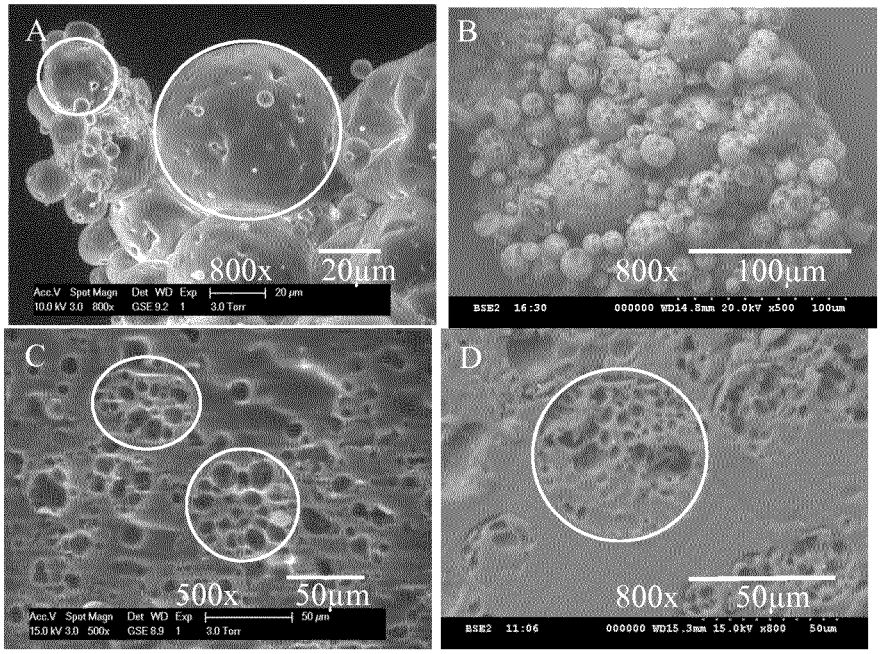


Figure 3

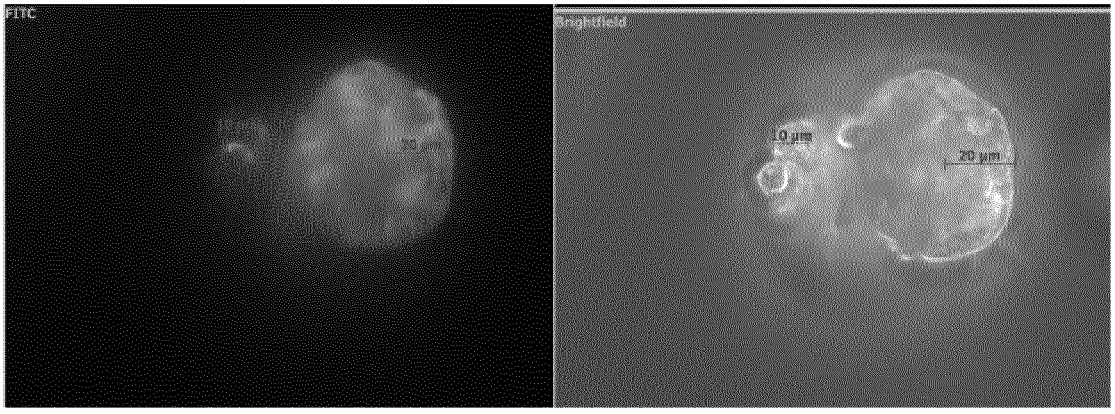


Figure 4

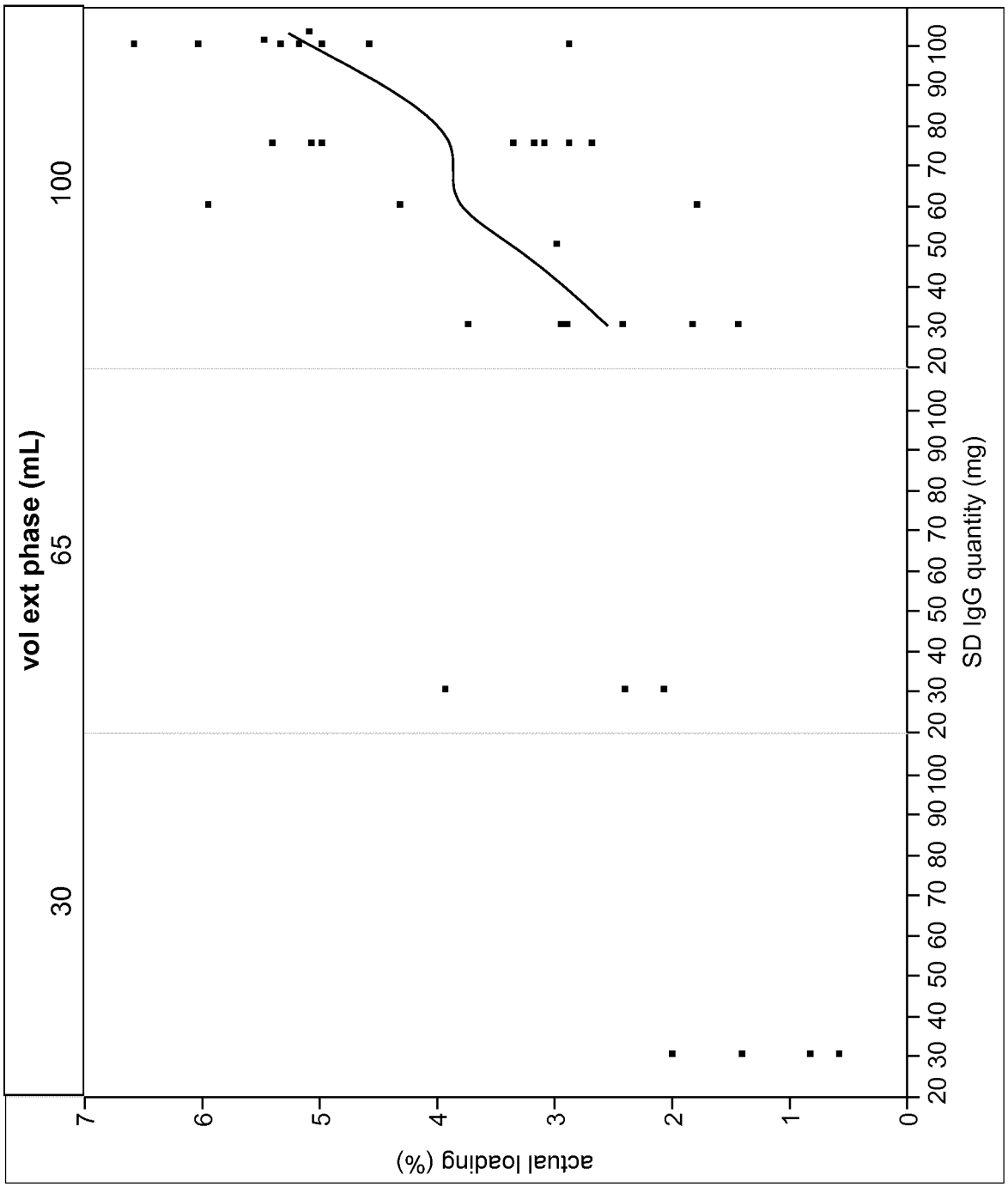

vol ext phase (mL)
30
65
100
actual loading (%)
0
1
2
3
4
5
6
7
20 30 40 50 60 70 80 90 100
20 30 40 50 60 70 80 90 100
20 30 40 50 60 70 80 90 100
SD IgG quantity (mg)

Figure 5

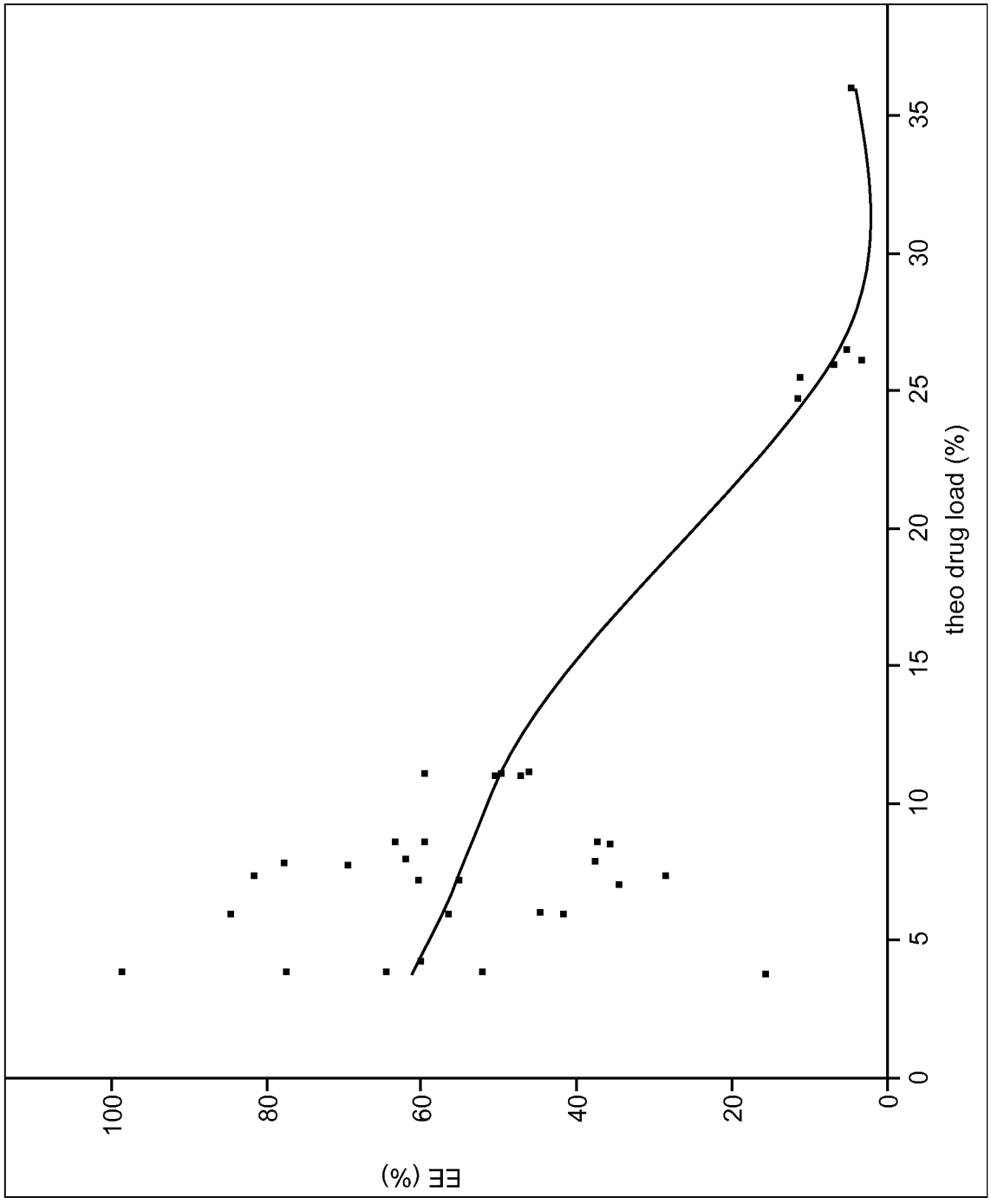


Figure 6

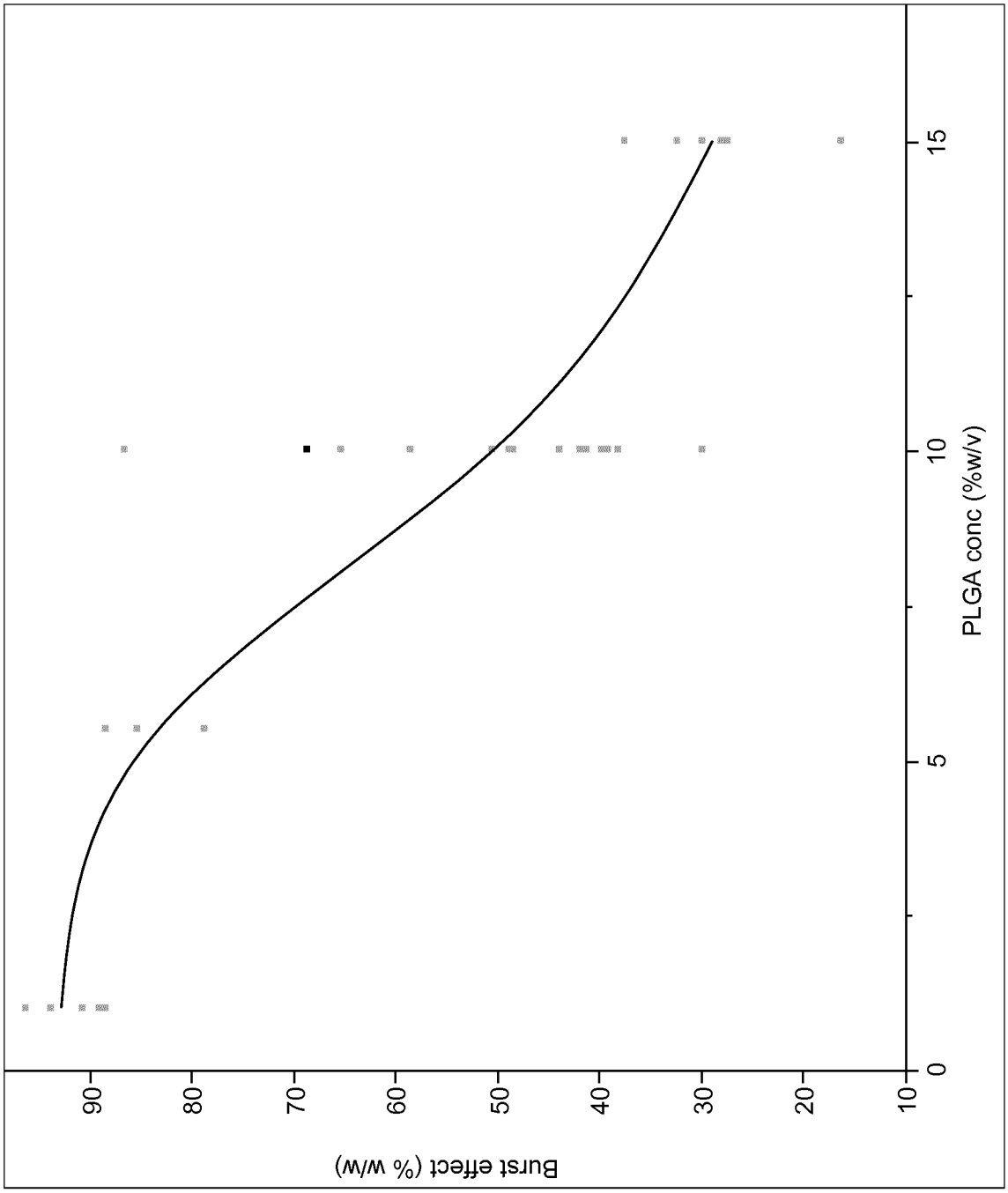


Figure 7

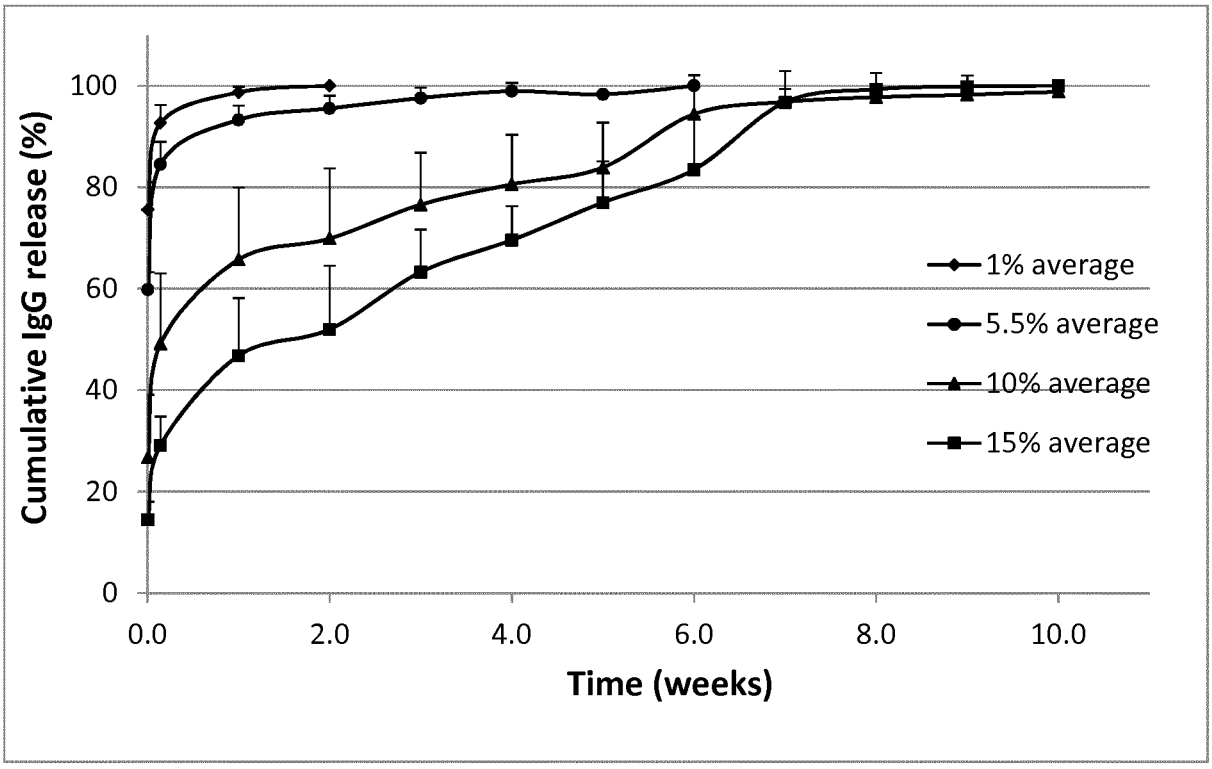

Cumulative IgG release (%)
100
80
60
40
20
0
0.0
2.0
4.0
6.0
8.0
10.0
Time (weeks)
1% average
5.5% average
10% average
15% average

Figure 8

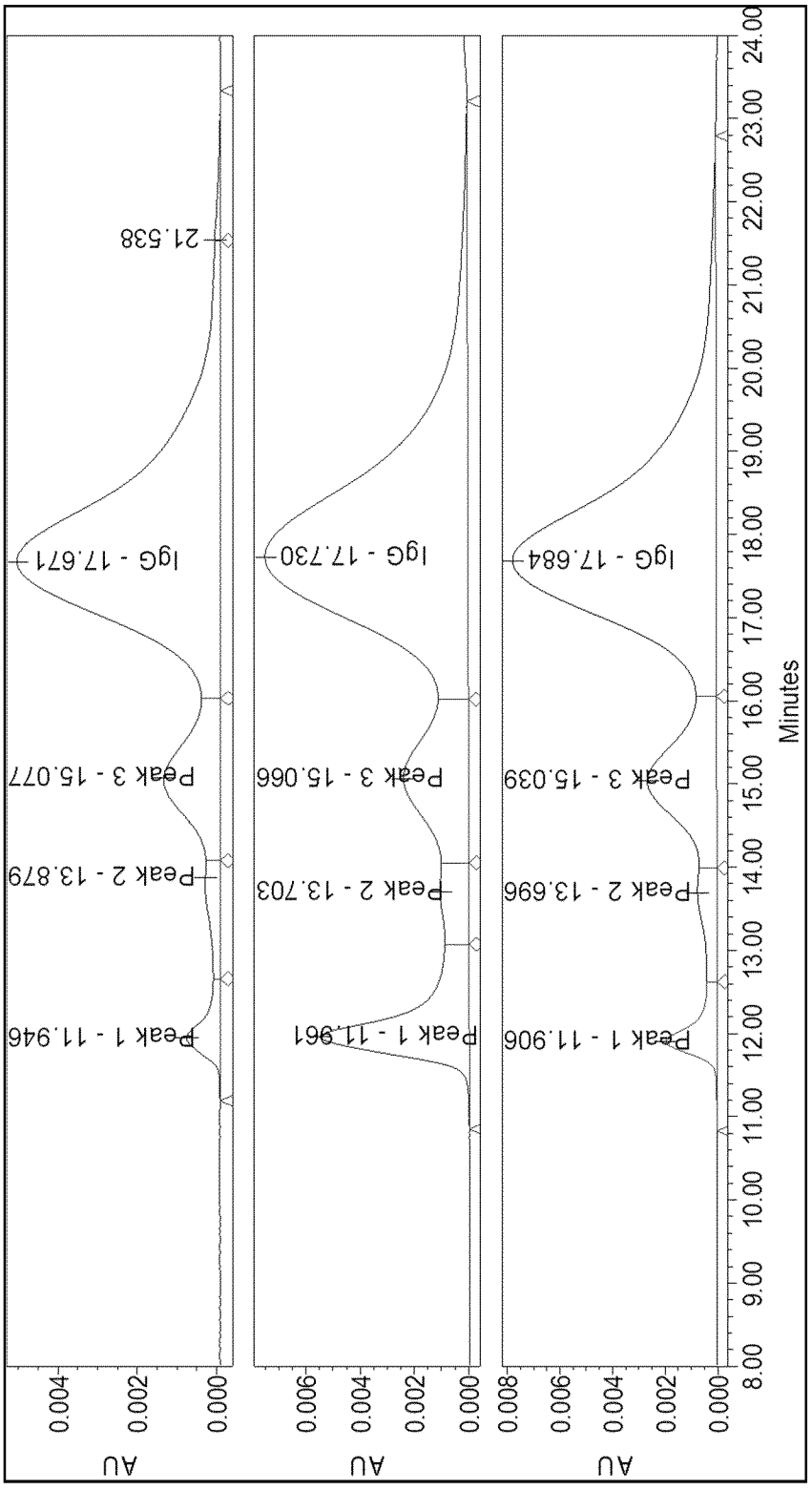

AU
0.000
0.002
0.004
0.006
0.008
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00
21.00
22.00
23.00
24.00
Minutes
Peak 1 - 11.906
Peak 2 - 13.696
Peak 3 - 15.039
IgG - 17.684
Peak 1 - 11.961
Peak 2 - 13.703
Peak 3 - 15.066
IgG - 17.730
Peak 1 - 11.946
Peak 2 - 13.879
Peak 3 - 15.077
IgG - 17.671
21.538

Figure 9

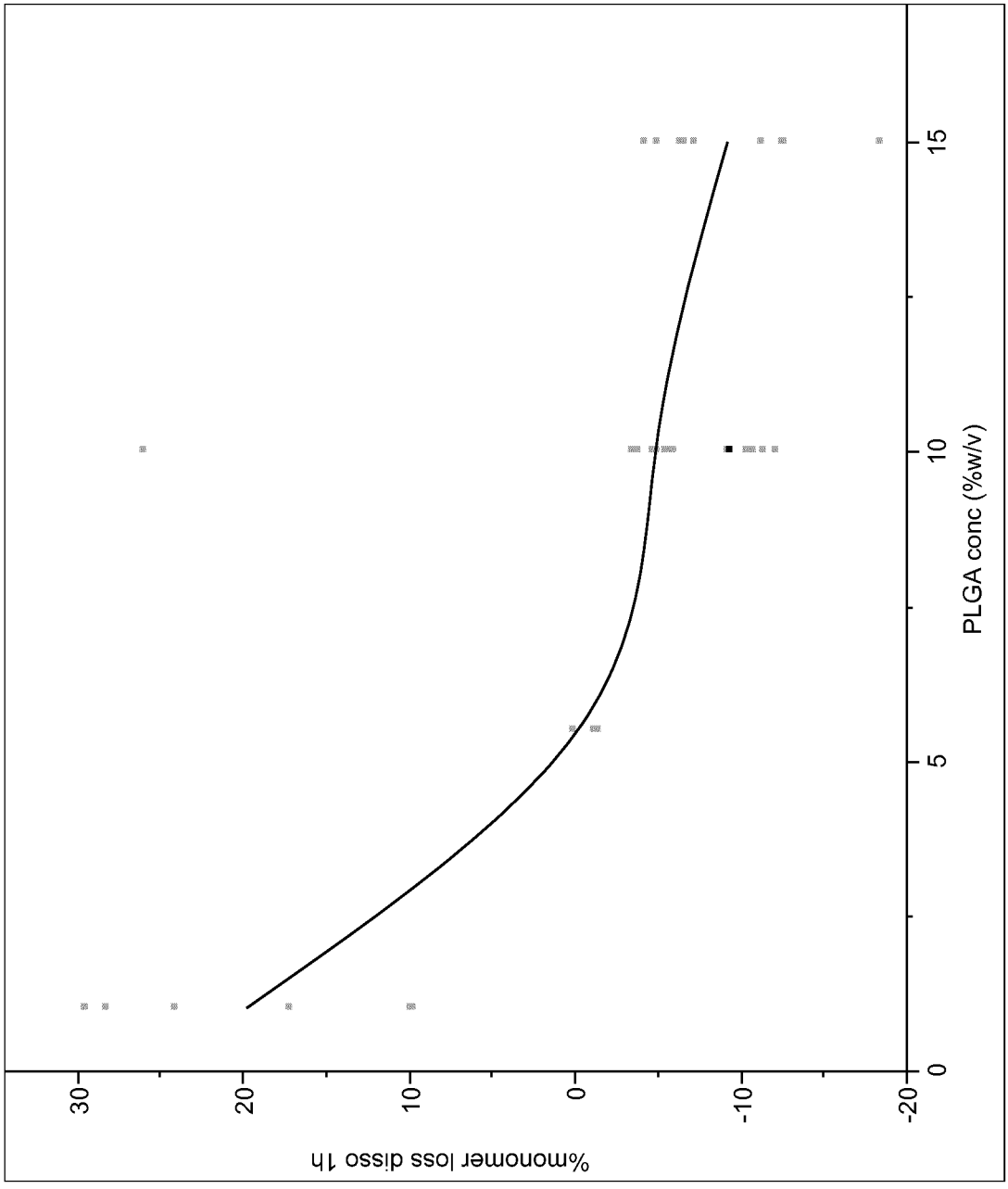


Figure 10

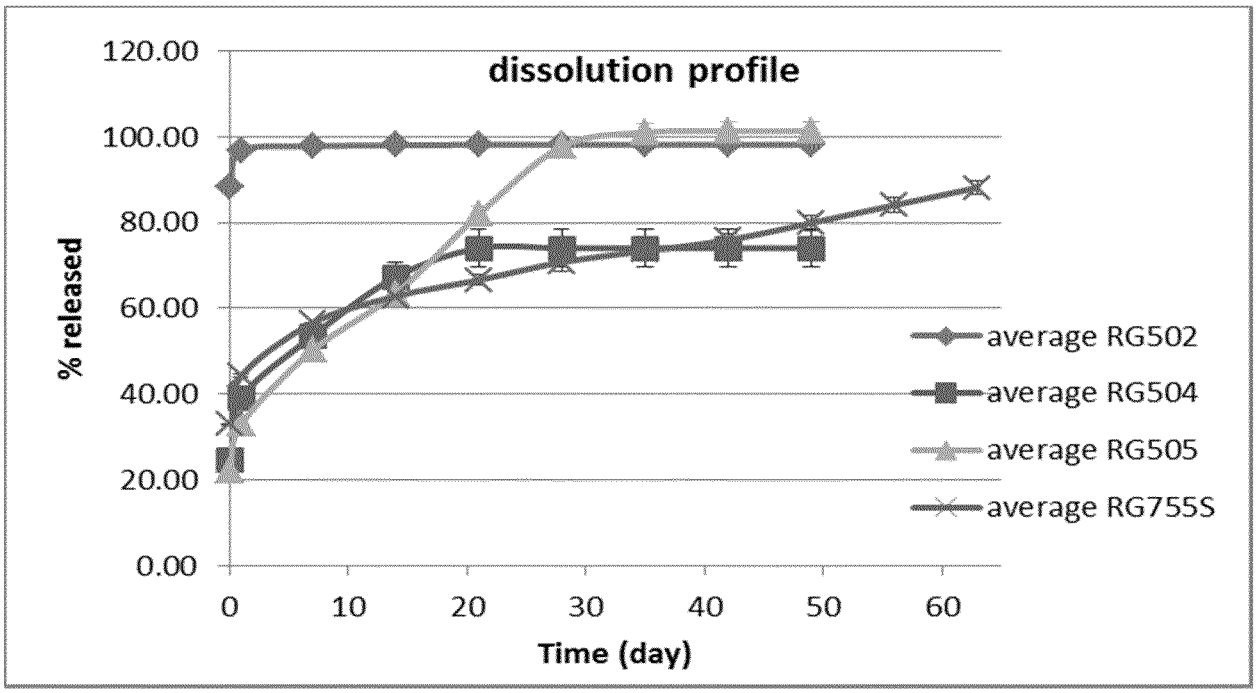

dissolution profile
120.00
100.00
80.00
60.00
40.00
20.00
0.00
% released
0
10
20
30
40
50
60
Time (day)
average RG502
average RG504
average RG505
average RG755S

Figure 11

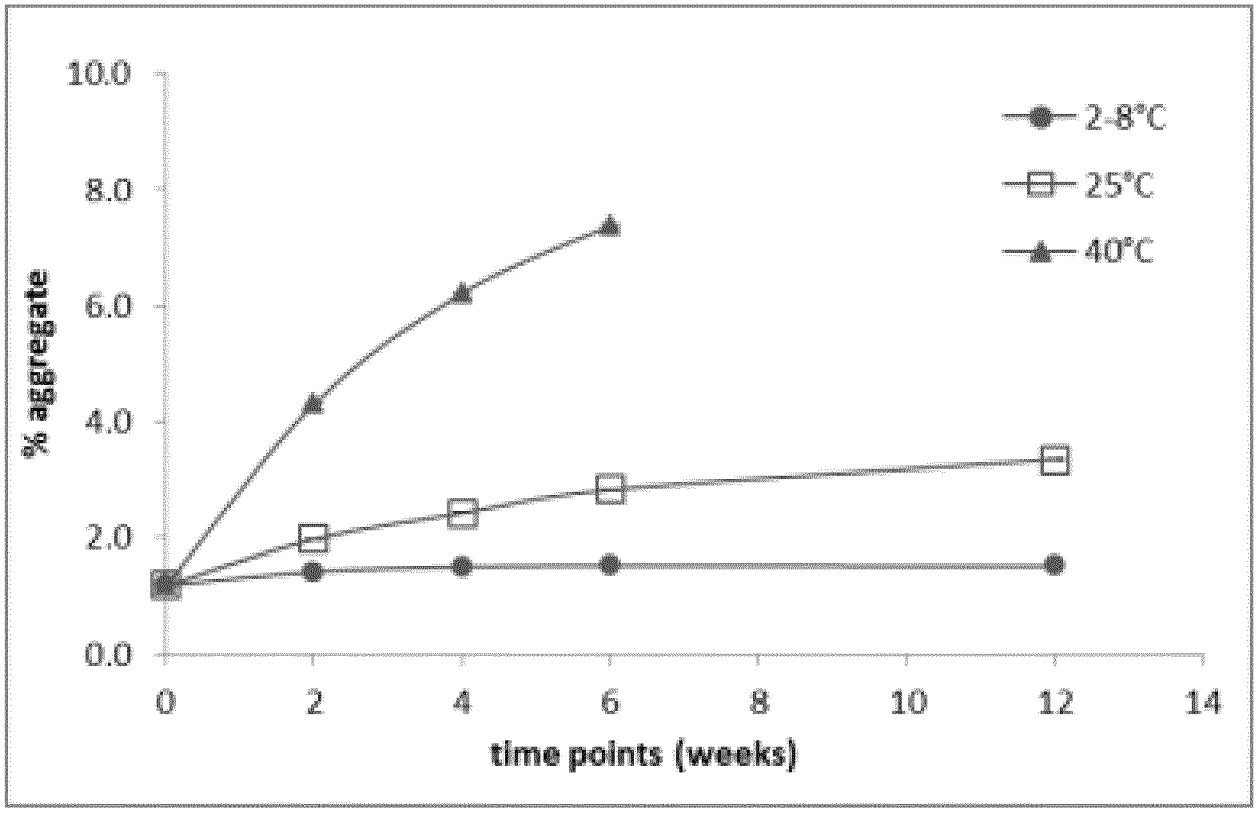
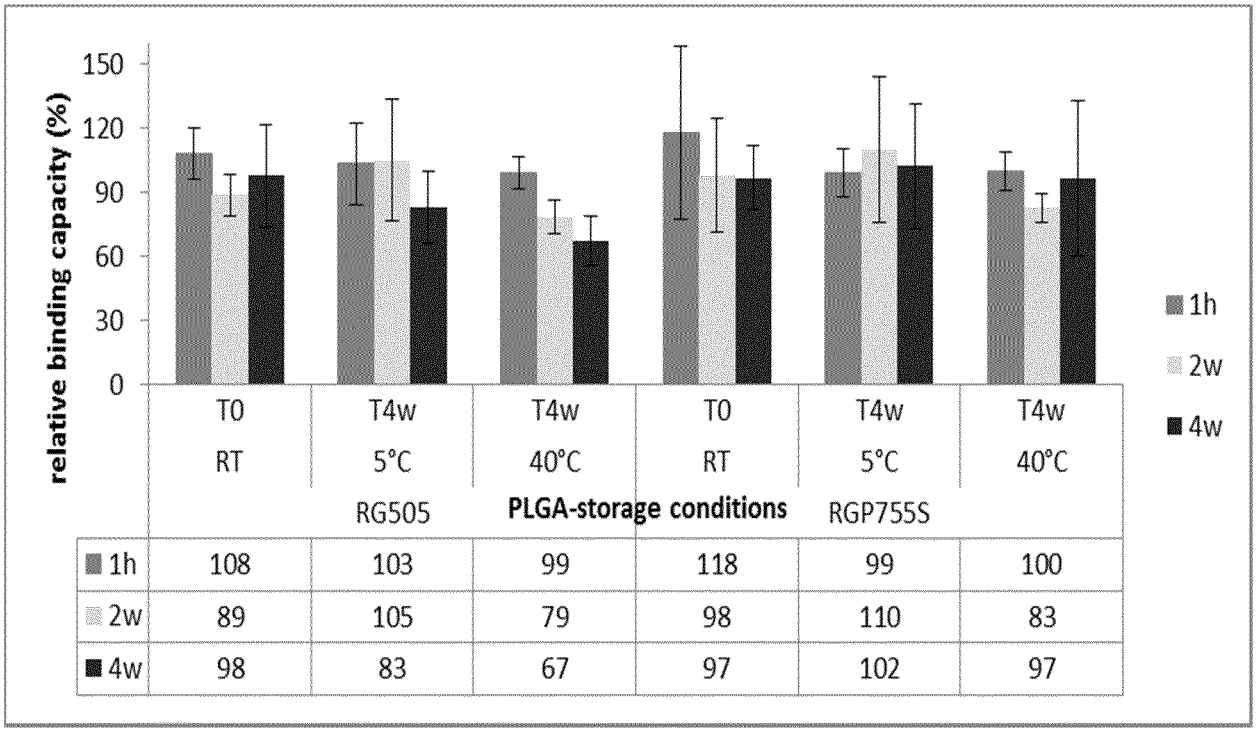

10.0
8.0
6.0
4.0
2.0
0.0
% aggregate
0
2
4
6
8
10
12
14
time points (weeks)
2-8°C
25°C
40°C

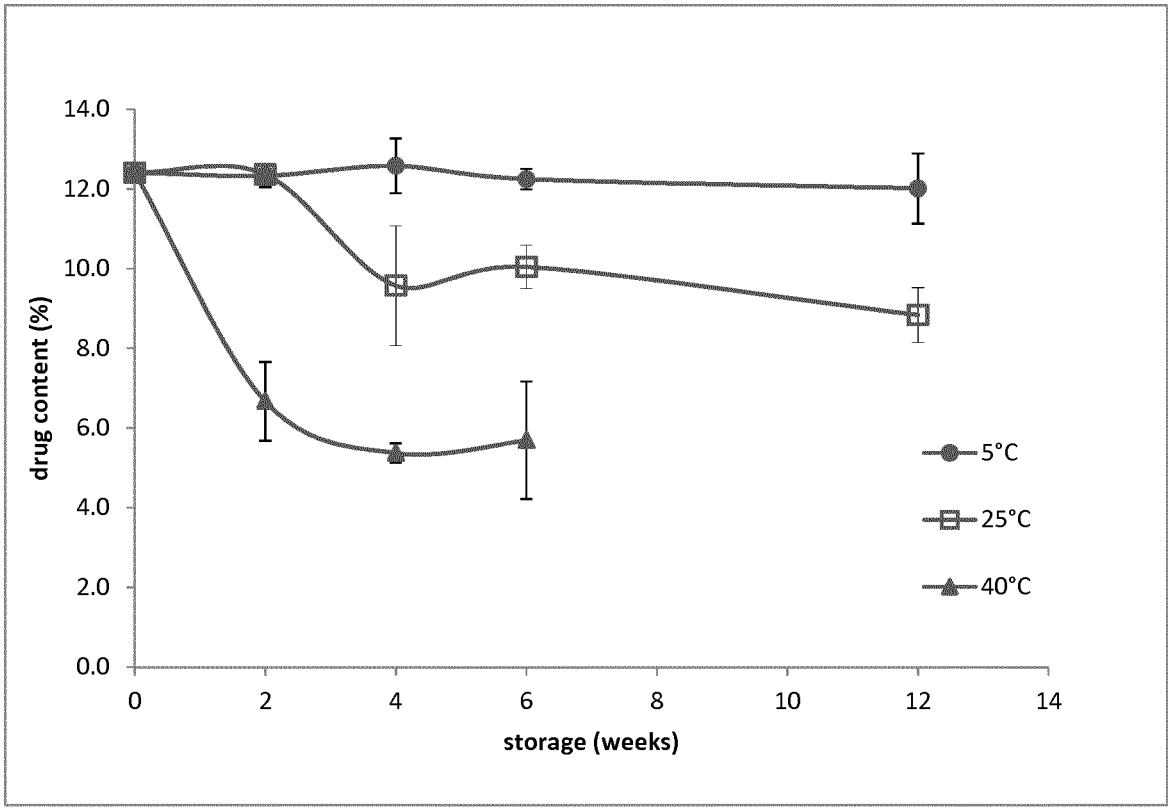
Figure 12



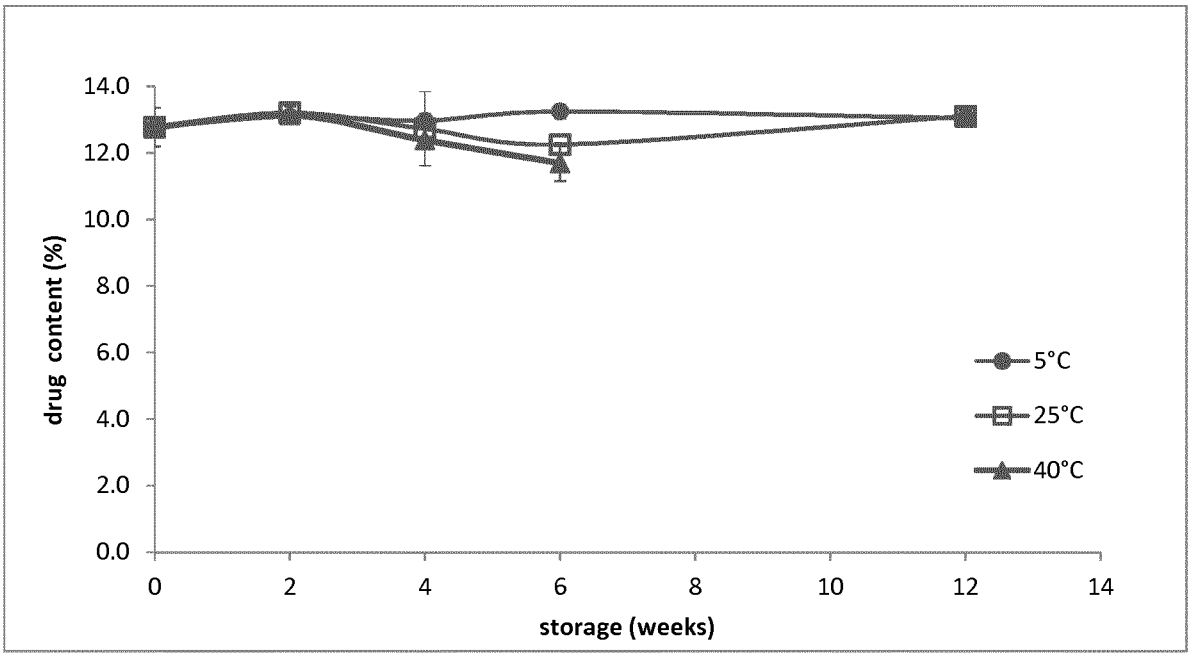
	T0 RT	T4w 5°C	T4w 40°C	T0 RT	T4w 5°C	T4w 40°C
		RG505		PLGA-storage conditions	RGP755S	
1h	108	103	99	118	99	100
2w	89	105	79	98	110	83
4w	98	83	67	97	102	97

Figure 13

(a)


14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
drug content (%)
0
2
4
6
8
10
12
14
storage (weeks)
5°C
25°C
40°C

(b)


14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
drug content (%)
0
2
4
6
8
10
12
14
storage (weeks)
5°C
25°C
40°C

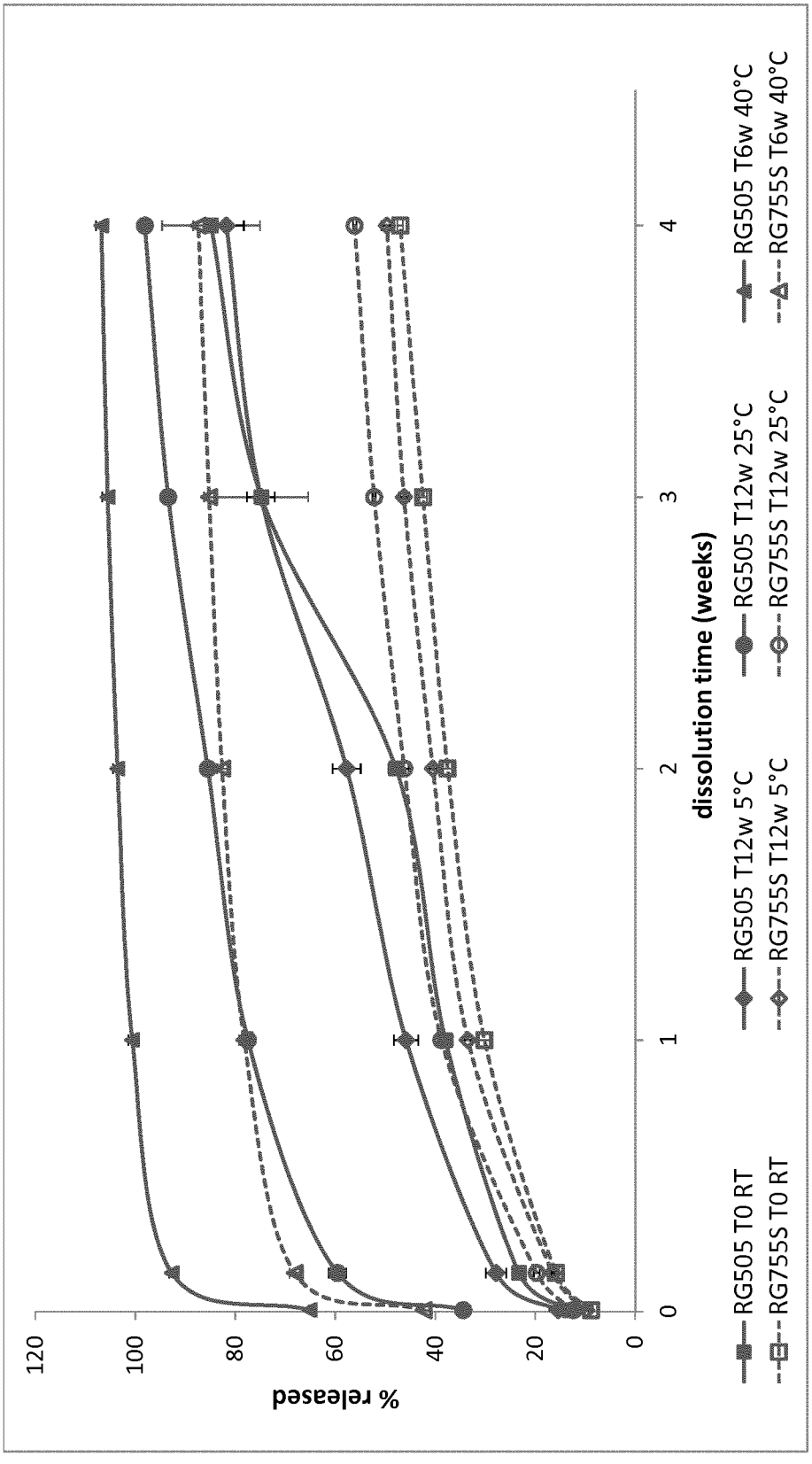

% released
120
100
80
60
40
20
0
0
1
2
3
4
dissolution time (weeks)
RG505 T0 RT
RG755S T0 RT
RG505 T12w 5°C
RG755S T12w 5°C
RG505 T12w 25°C
RG755S T12w 25°C
RG505 T6w 40°C
RG755S T6w 40°C

Figure 14

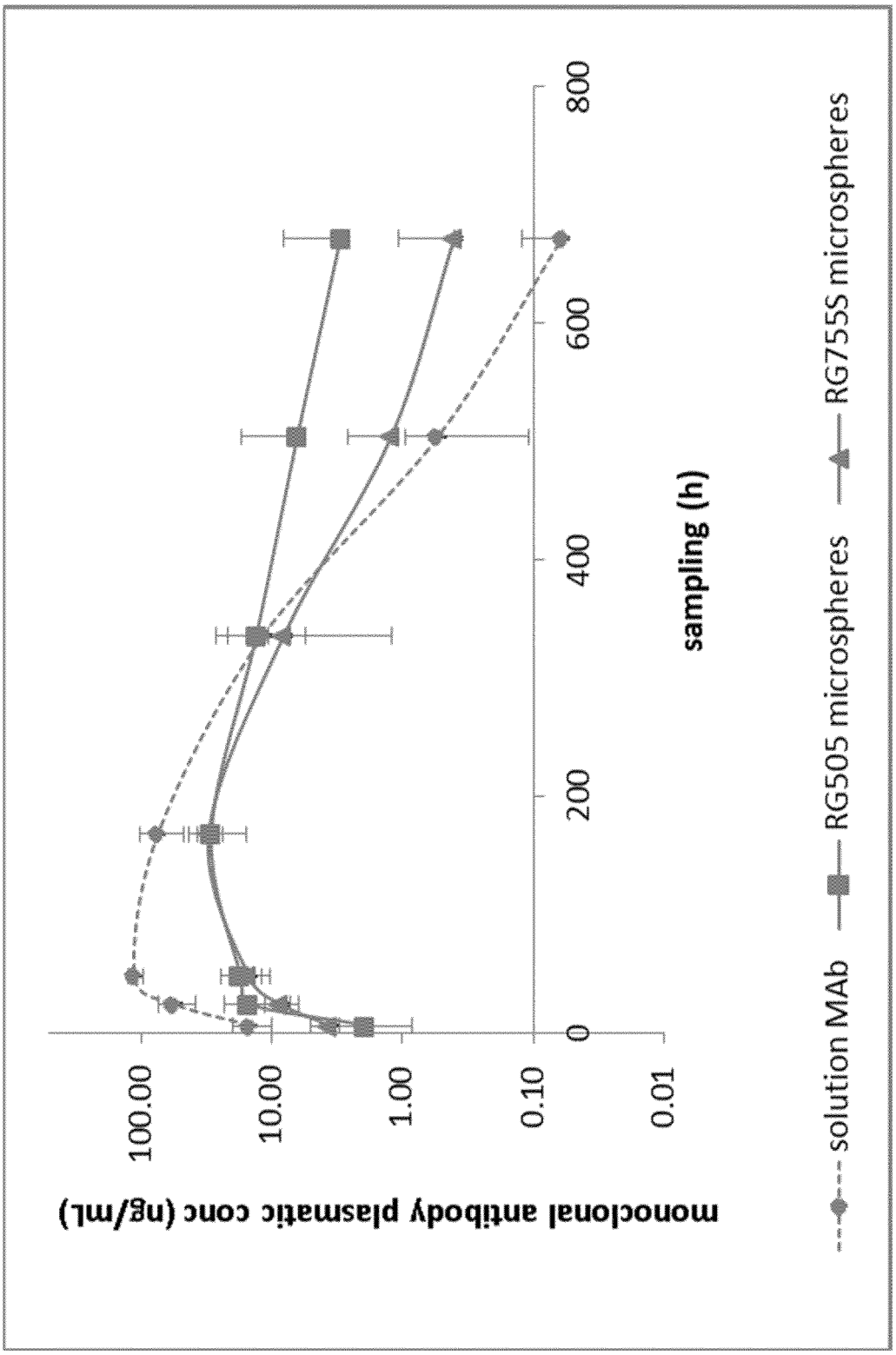

monoclonal antibody plasmatic conc (ng/mL)
100.00
10.00
1.00
0.10
0.01
0
200
400
600
800
sampling (h)
solution MAb
RG505 microspheres
RG755S microspheres

Figure 15

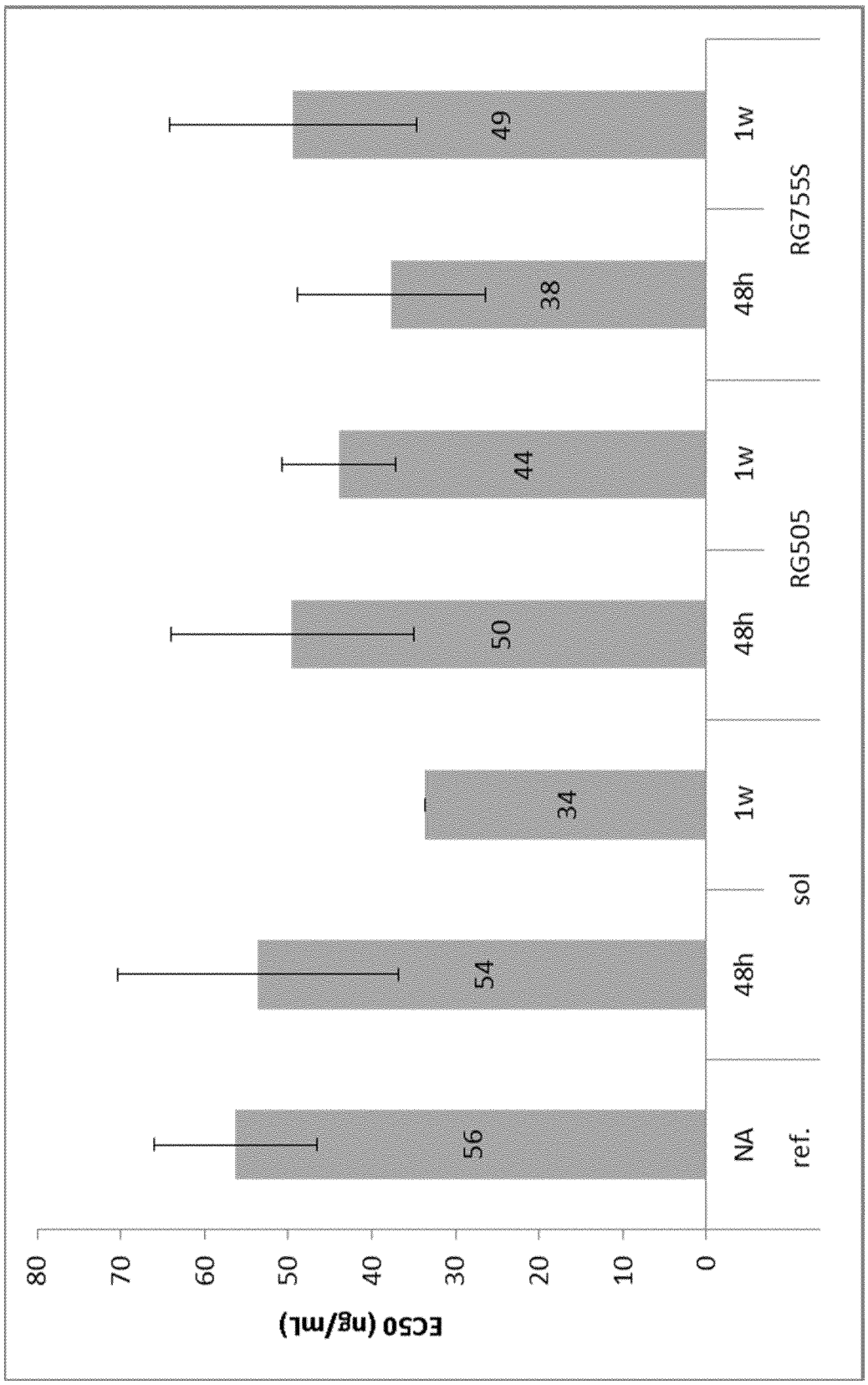

EC50 (ng/mL)
0
10
20
30
40
50
60
70
80
56
54
34
50
44
38
49
NA
48h
1w
48h
1w
48h
1w
ref.
sol
RG505
RG755S

Figure 16