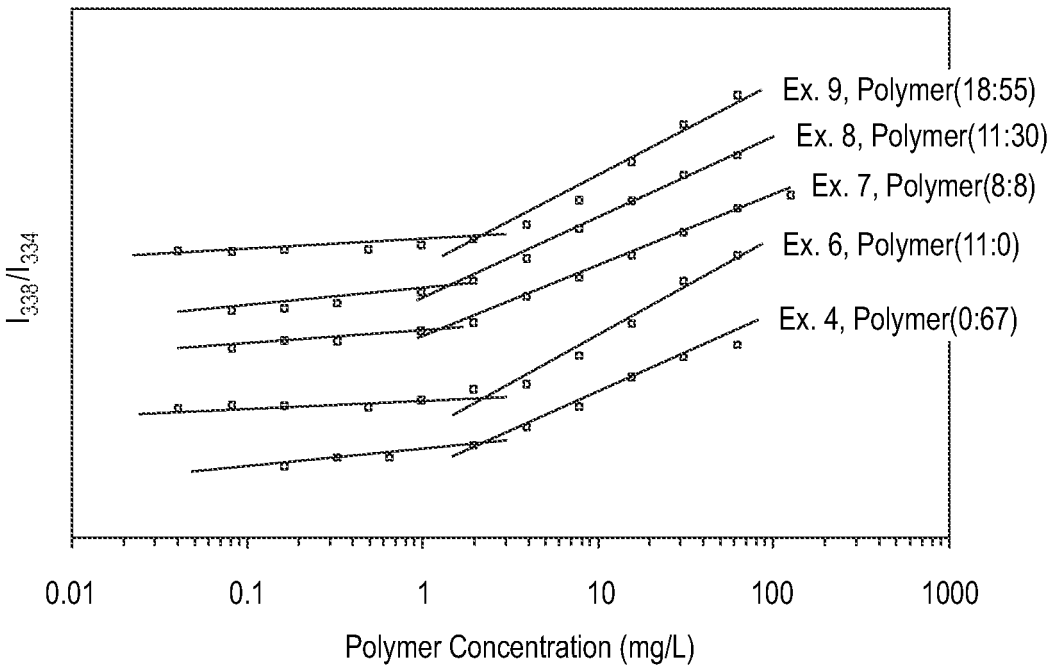

Ex. 9, Polymer(18:55)
Ex. 8, Polymer(11:30)
Ex. 7, Polymer(8:8)
Ex. 6, Polymer(11:0)
Ex. 4, Polymer(0:67)
I_{338}/I_{334}
0.01
0.1
1
10
100
1000
Polymer Concentration (mg/L)

FIG. 1

Ex. 4, Polymer(0:67)

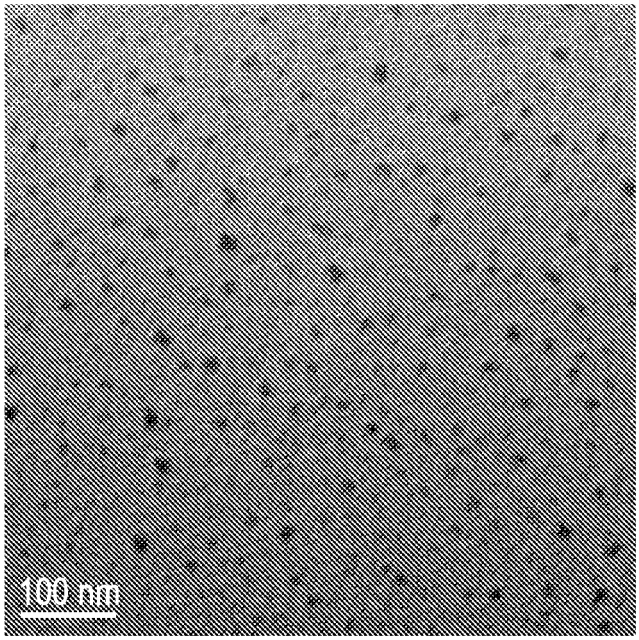


FIG. 2A

Ex. 5, Polymer(4:0)

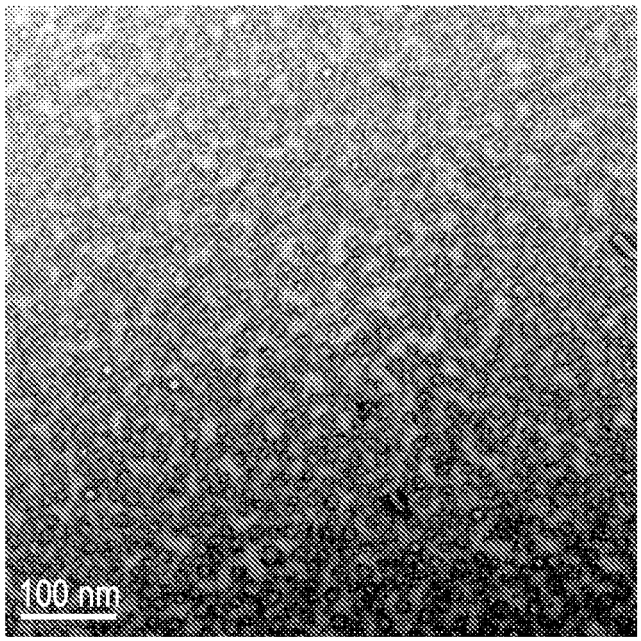


FIG. 2B

Ex. 6, Polymer(11:0)

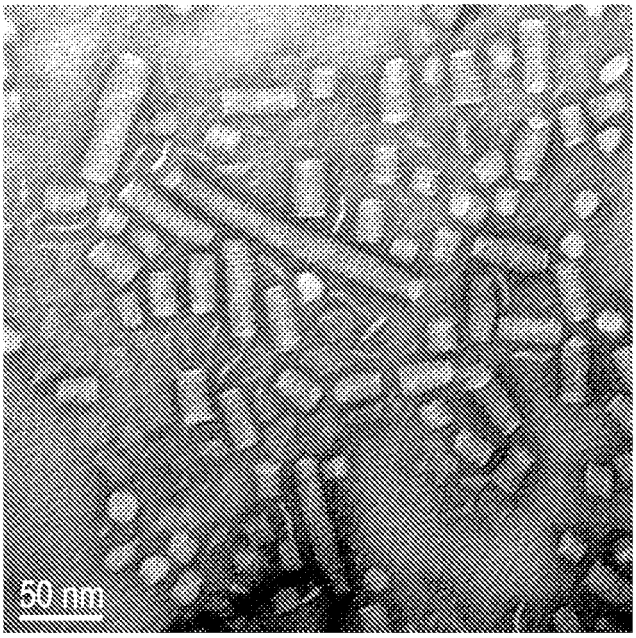


FIG. 2C

Ex. 7, Polymer(8:8)

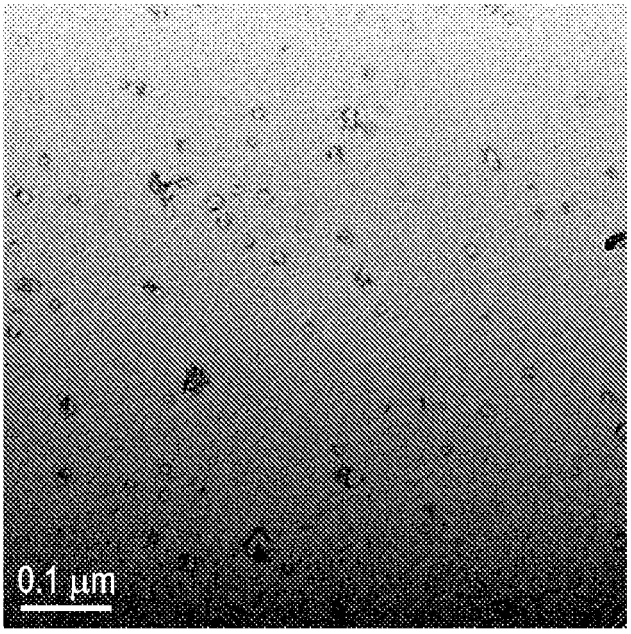


FIG. 2D

Ex. 8, Polymer(11:30)

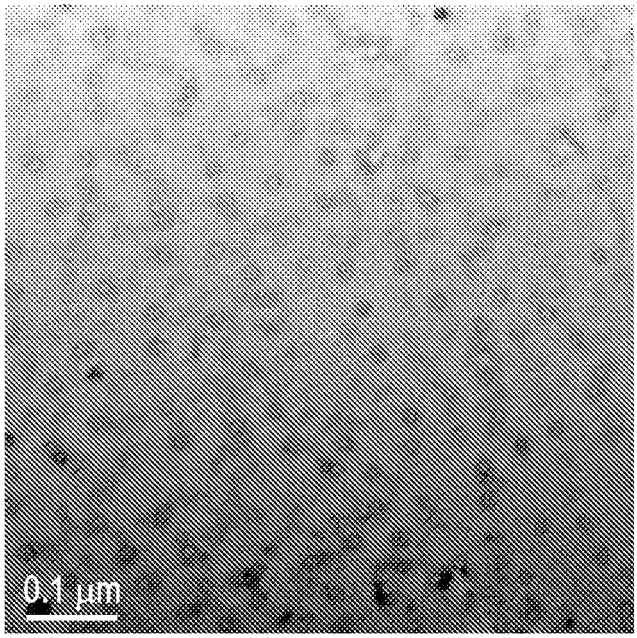


FIG. 2E

Ex. 9, Polymer(18:55)

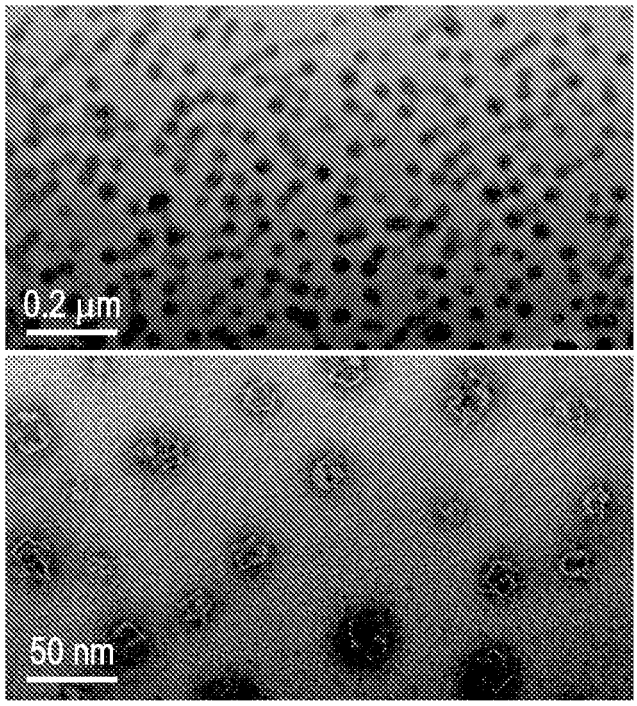


FIG. 2F

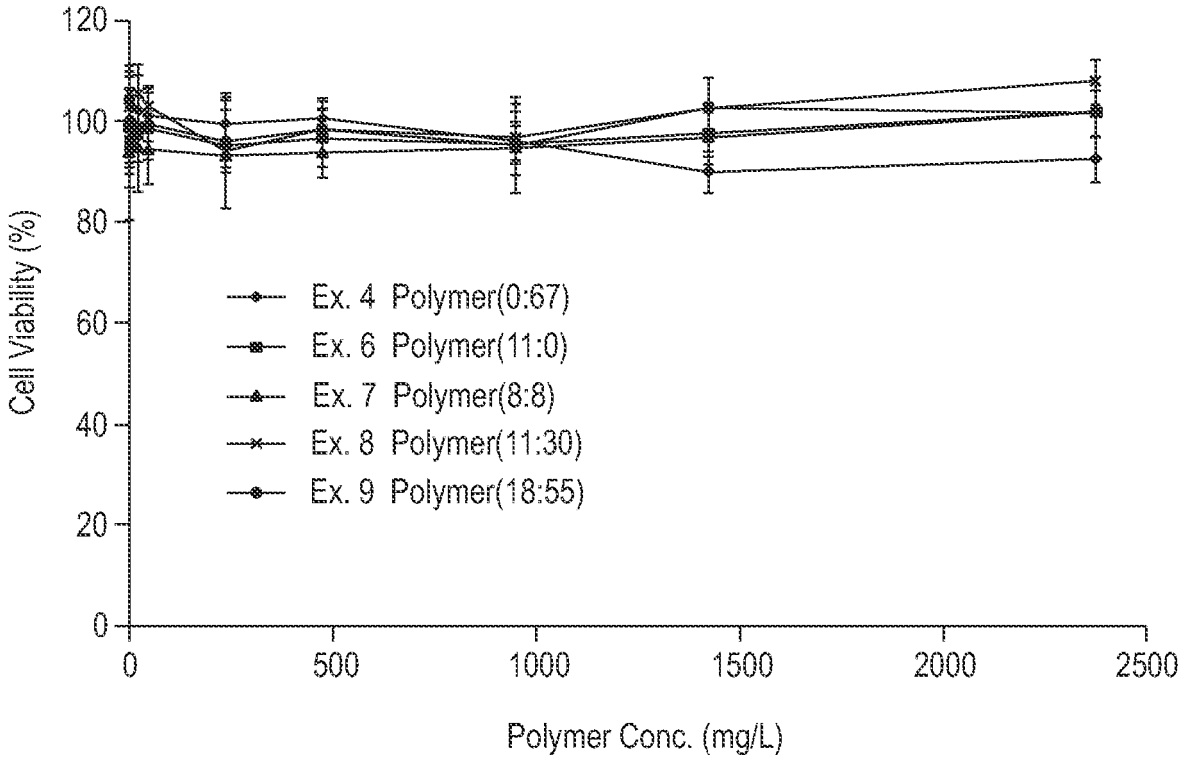

120
100
80
60
40
20
0
Cell Viability (%)
0
500
1000
1500
2000
2500
Polymer Conc. (mg/L)
Ex. 4 Polymer(0:67)
Ex. 6 Polymer(11:0)
Ex. 7 Polymer(8:8)
Ex. 8 Polymer(11:30)
Ex. 9 Polymer(18:55)

FIG. 3

Ex. 11 PTX-Polymer(0:67)

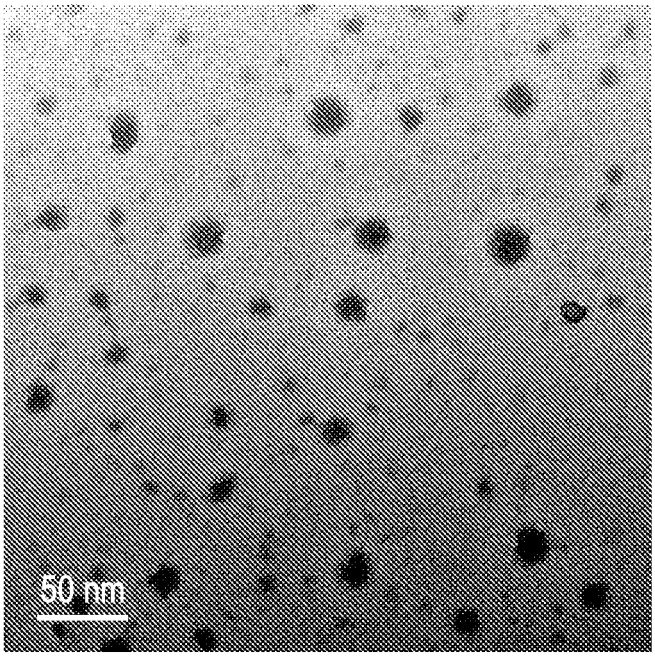


FIG. 4A

Ex. 12 PTX-Polymer(11:0)

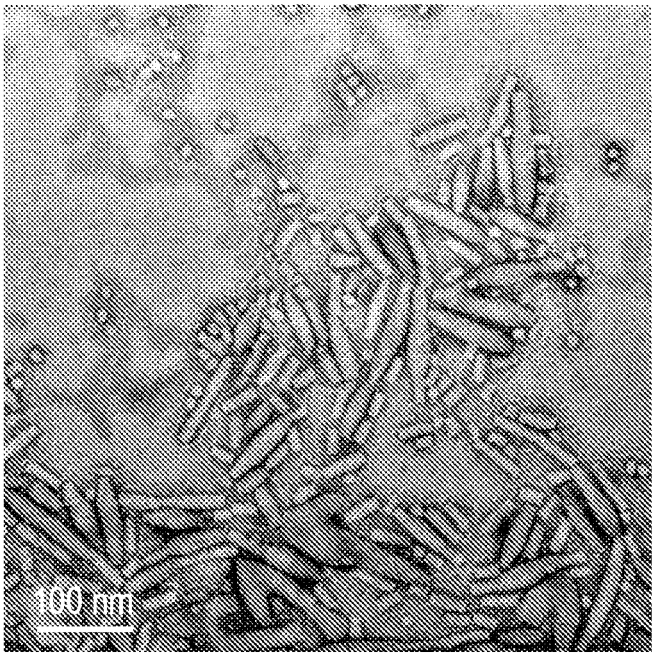


FIG. 4B

Ex. 13 PTX-Polymer(8:8)

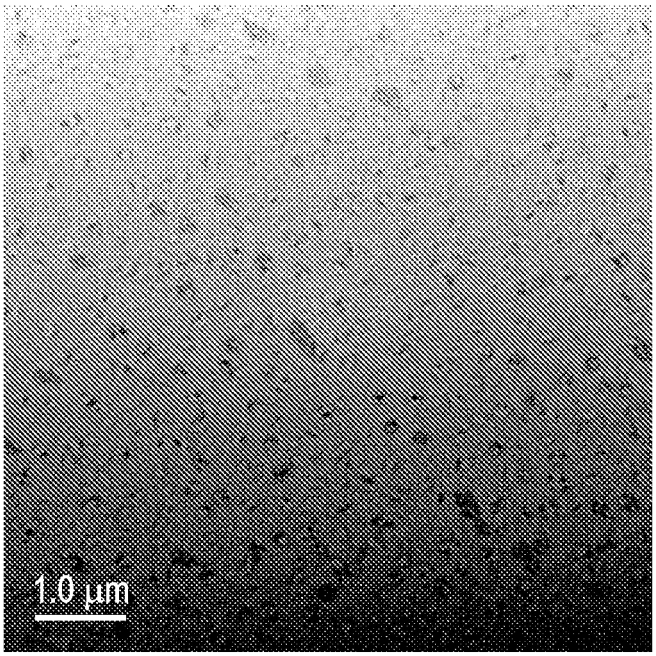


FIG. 4C

Ex. 14 PTX-Polymer(11:30)

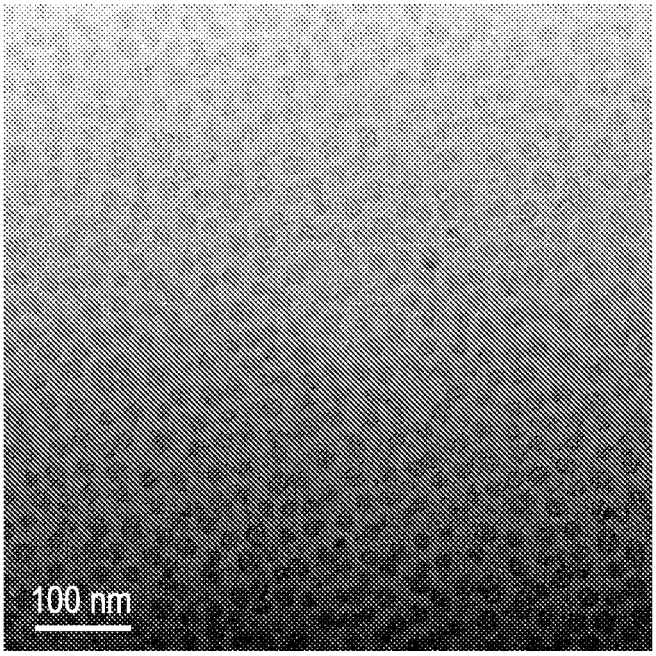


FIG. 4D

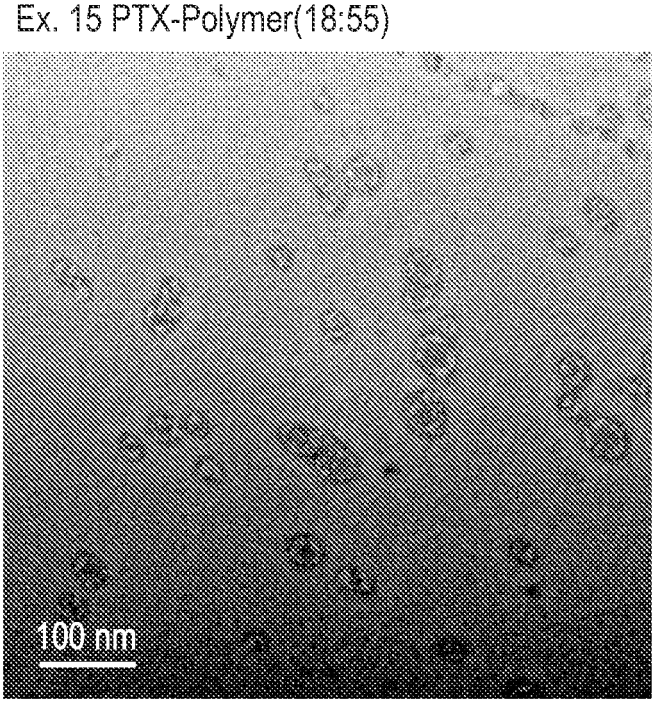


FIG. 4E

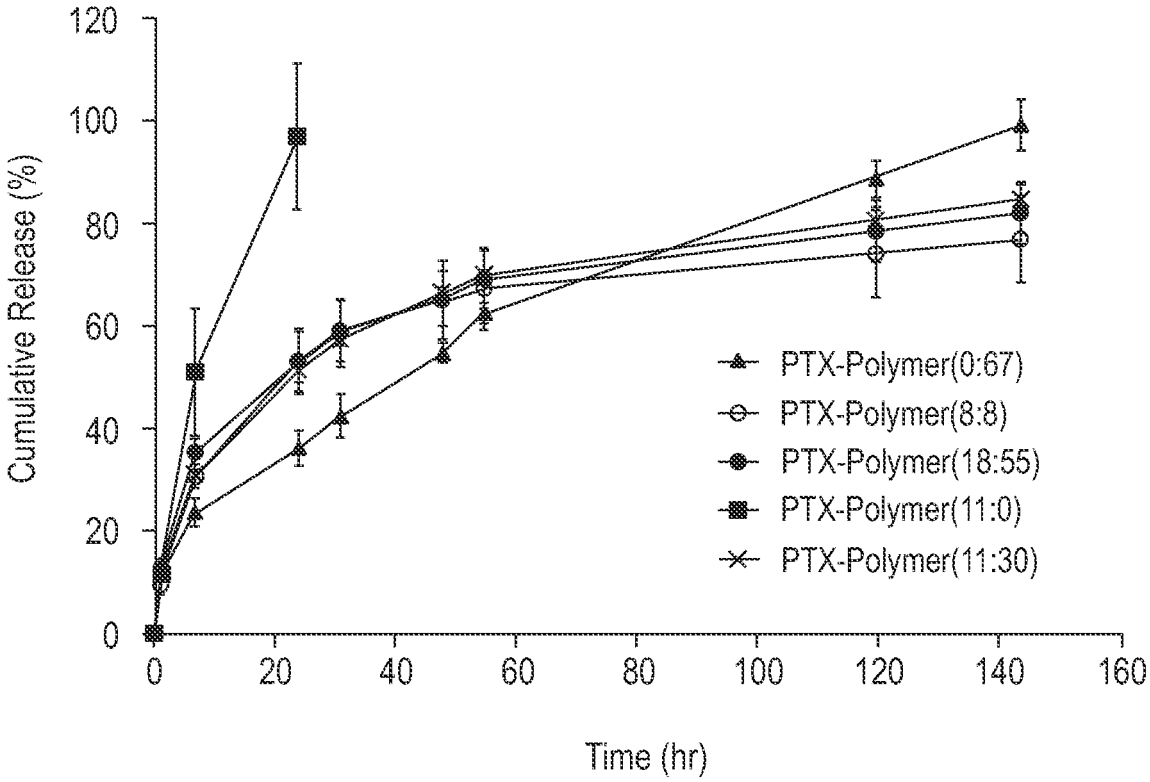

Cumulative Release (%)
120
100
80
60
40
20
0
0
20
40
60
80
100
120
140
160
Time (hr)
PTX-Polymer(0:67)
PTX-Polymer(8:8)
PTX-Polymer(18:55)
PTX-Polymer(11:0)
PTX-Polymer(11:30)

FIG. 5A

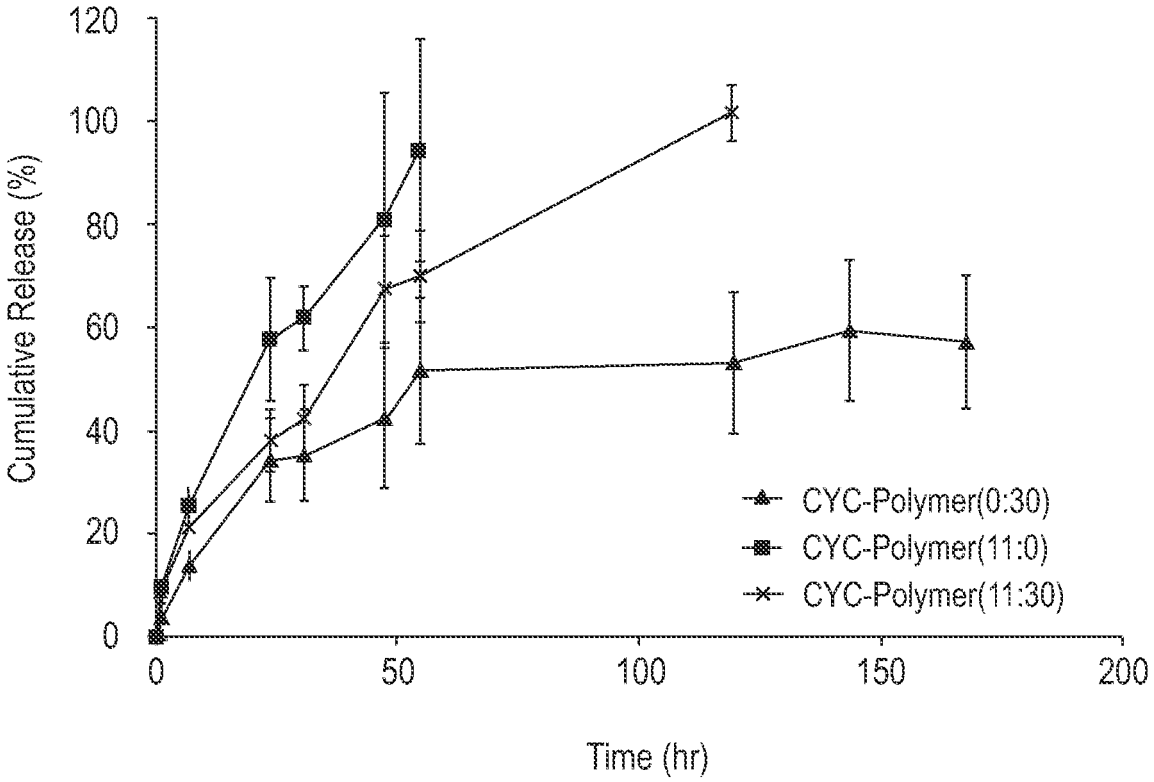

120
100
80
60
40
20
0
Cumulative Release (%)
0
50
100
150
200
Time (hr)
CYC-Polymer(0:30)
CYC-Polymer(11:0)
CYC-Polymer(11:30)

FIG. 5B

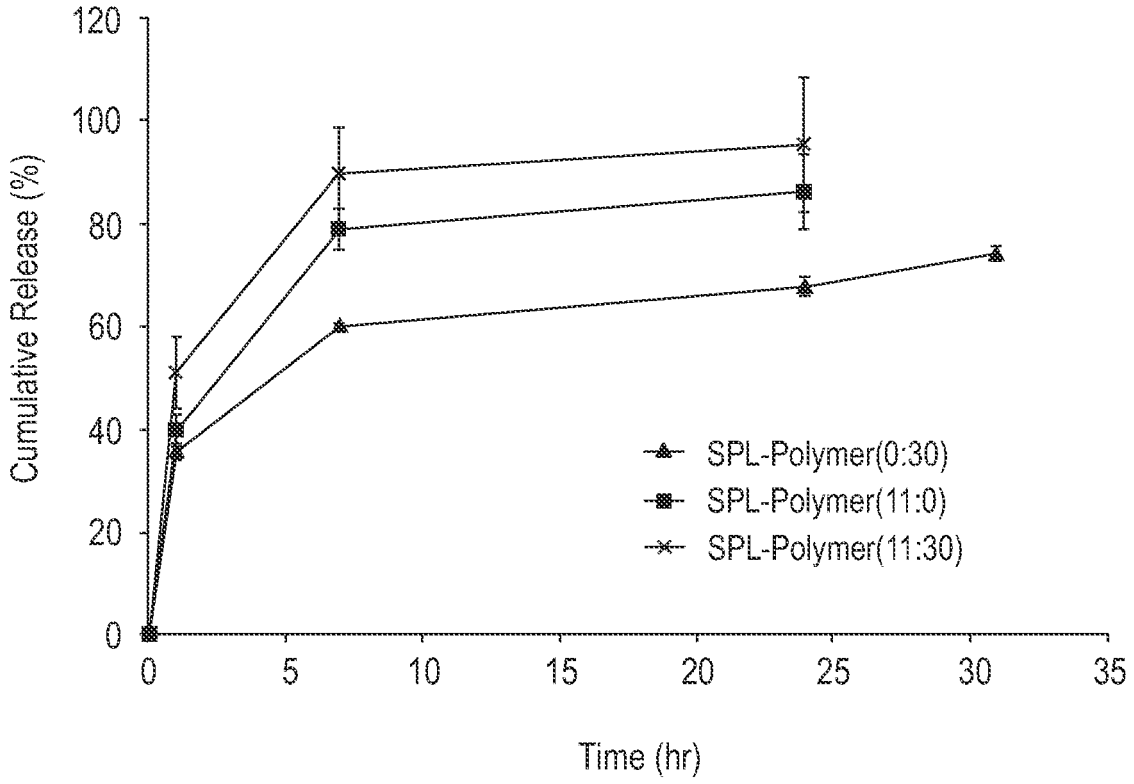

120
100
80
60
40
20
0
Cumulative Release (%)
0
5
10
15
20
25
30
35
Time (hr)
SPL-Polymer(0:30)
SPL-Polymer(11:0)
SPL-Polymer(11:30)

FIG. 5C

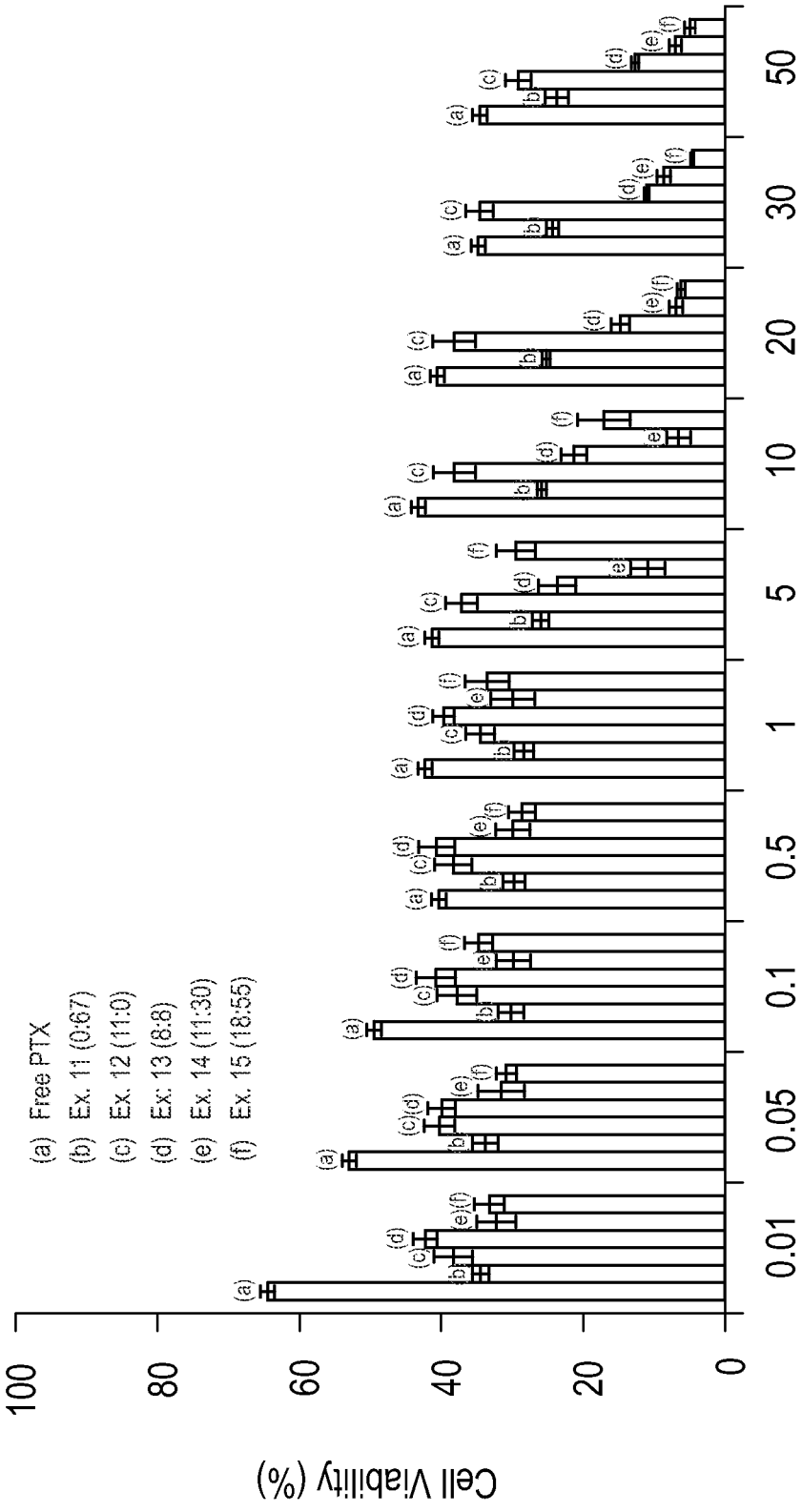

(a) Free PTX
(b) Ex. 11 (0:67)
(c) Ex. 12 (11:0)
(d) Ex: 13 (8:8)
(e) Ex. 14 (11:30)
(f) Ex. 15 (18:55)
Cell Viability (%)
0
20
40
60
80
100
0.01
0.05
0.1
0.5
1
5
10
20
30
50
PTX Conc. (mg/L)

FIG. 6

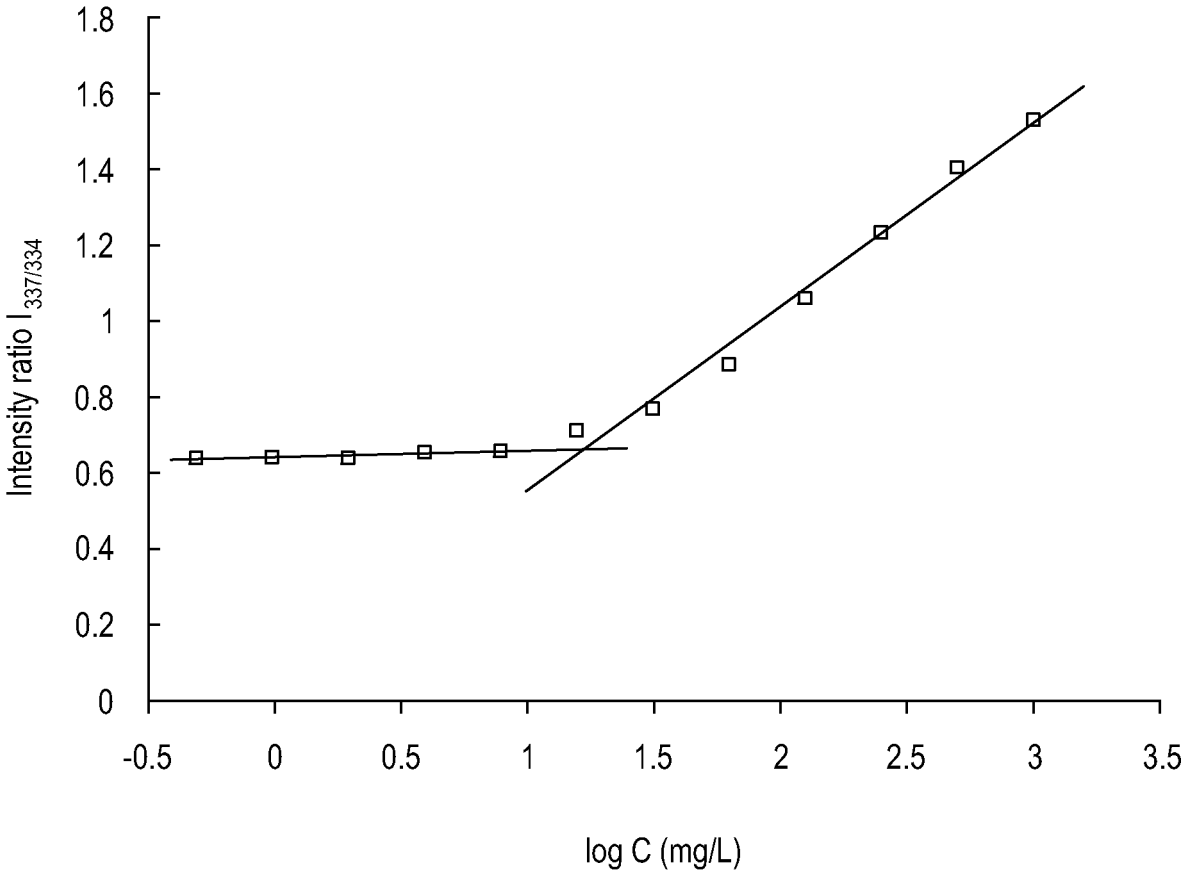

1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Intensity ratio $I_{337/334}$
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
log C (mg/L)

FIG. 7

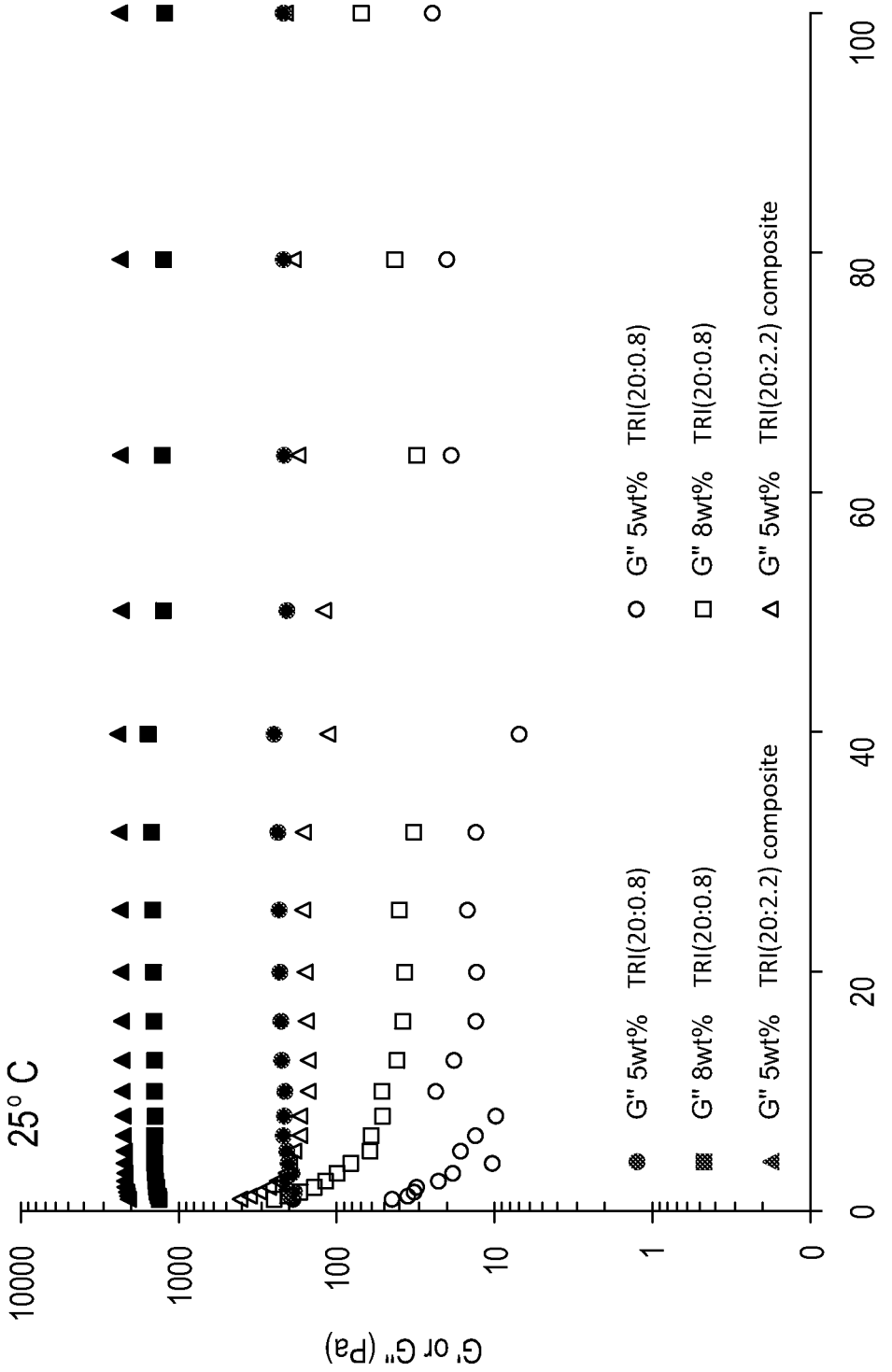

25° C
G' or G" (Pa)
10000
1000
100
10
1
0
0
20
40
60
80
100
ω (rad/s)
G" 5wt% TRI(20:0.8)
G" 8wt% TRI(20:0.8)
G" 5wt% TRI(20:2.2) composite
G" 5wt% TRI(20:0.8)
G" 8wt% TRI(20:0.8)
G" 5wt% TRI(20:2.2) composite

FIG. 8

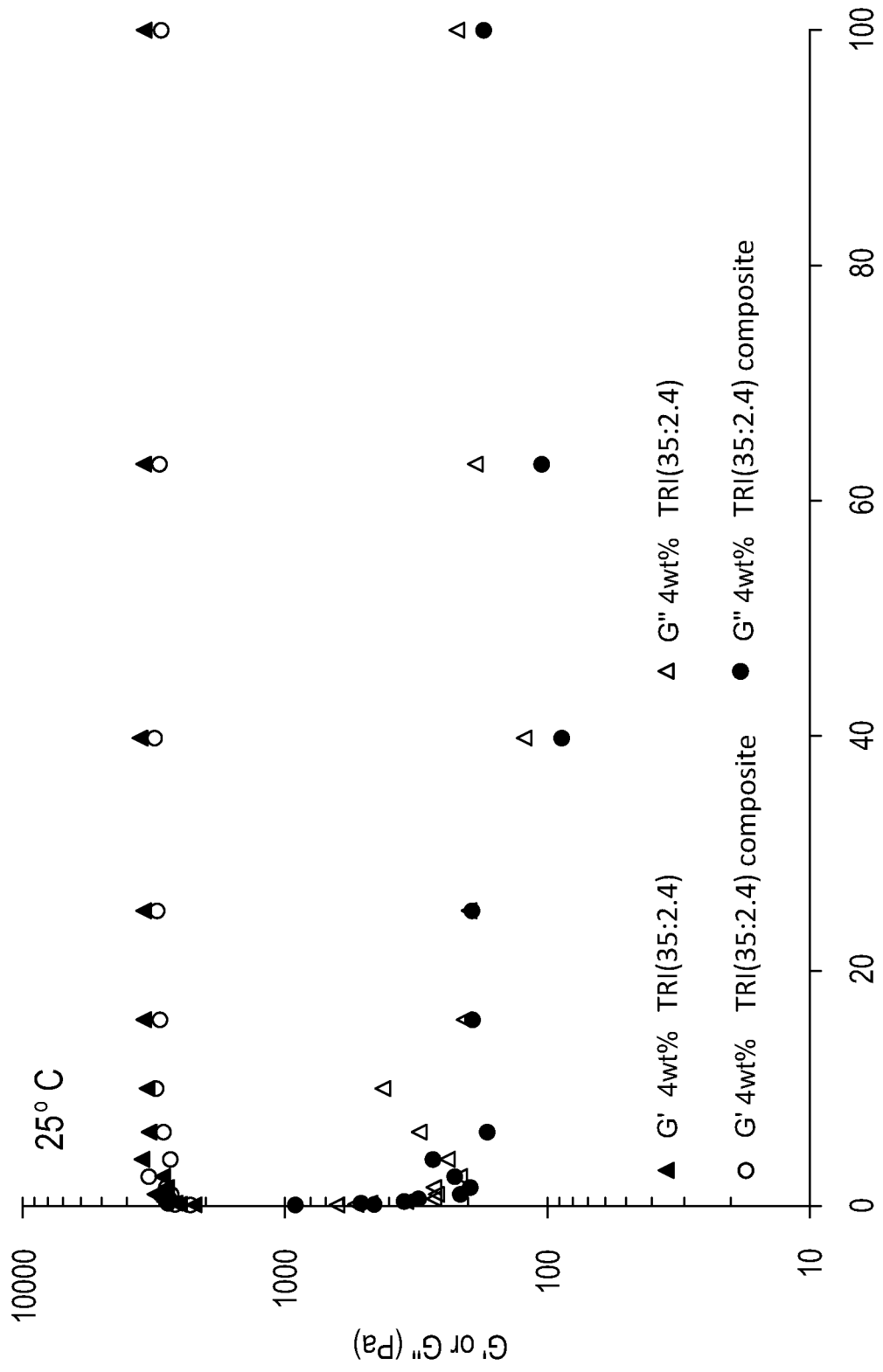

25° C
G' or G" (Pa)
10000
1000
100
10
0
20
40
60
80
100
ω (rad/s)
G' 4wt% TRI(35:2.4)
G" 4wt% TRI(35:2.4)
G' 4wt% TRI(35:2.4) composite
G" 4wt% TRI(35:2.4) composite

FIG. 9

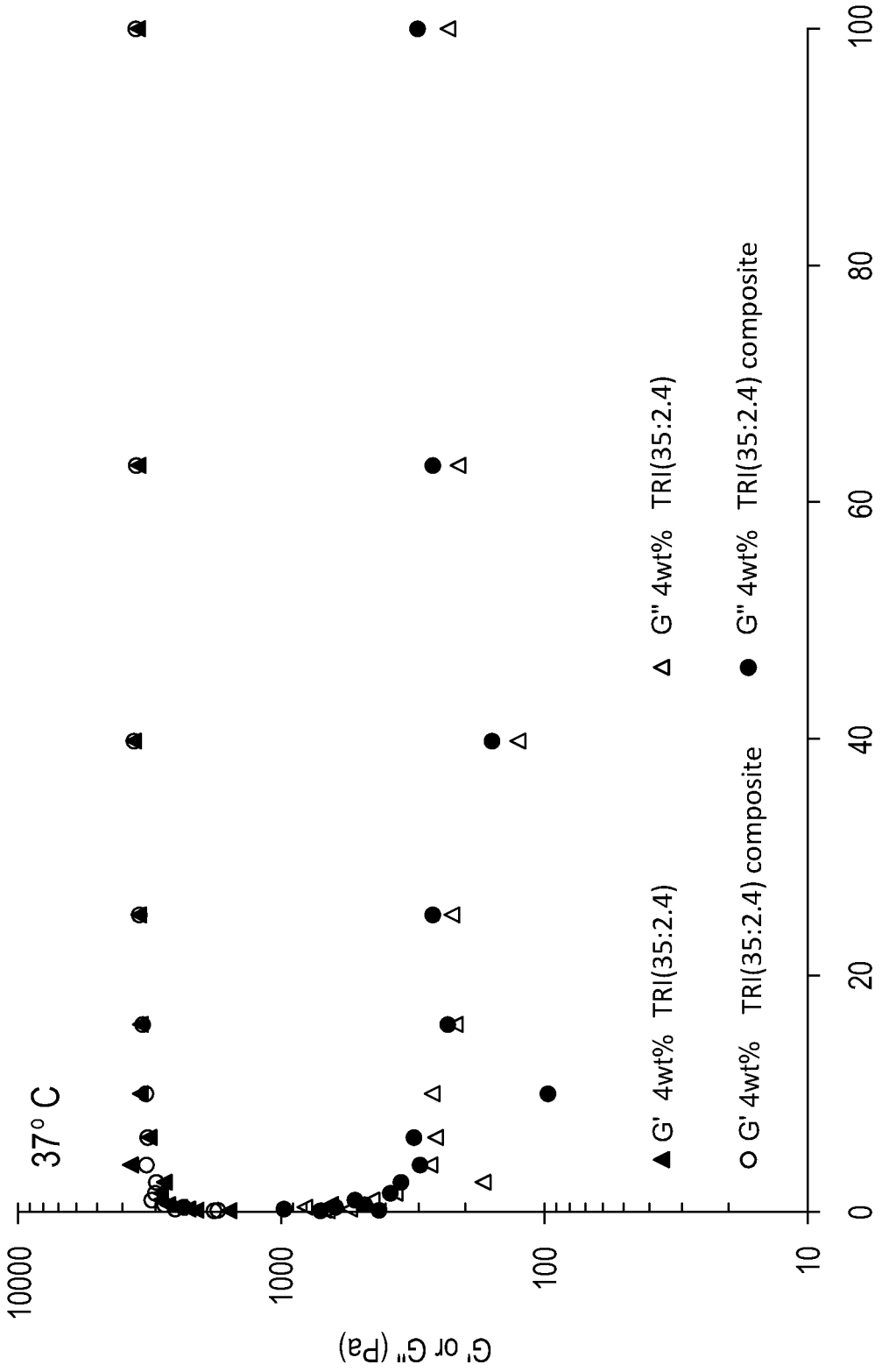

37° C
G' or G" (Pa)
10000
1000
100
10
0
20
40
60
80
100
ω (rad/s)
▲ G' 4wt% TRI(35:2.4)
O G' 4wt% TRI(35:2.4) composite
Δ G" 4wt% TRI(35:2.4)
● G" 4wt% TRI(35:2.4) composite

FIG. 10

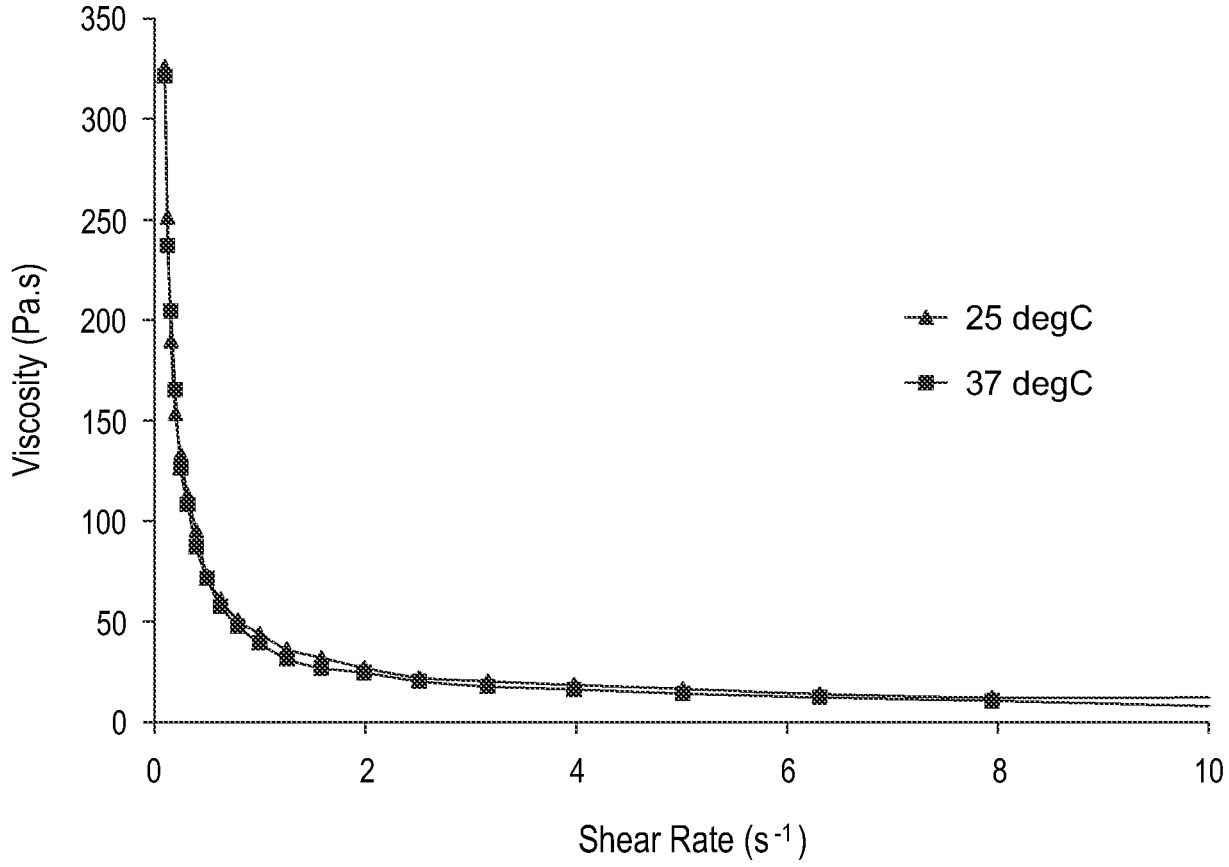

350
300
250
200
150
100
50
0
Viscosity (Pa.s)
0
2
4
6
8
10
Shear Rate (s-1)
25 degC
37 degC

FIG. 11

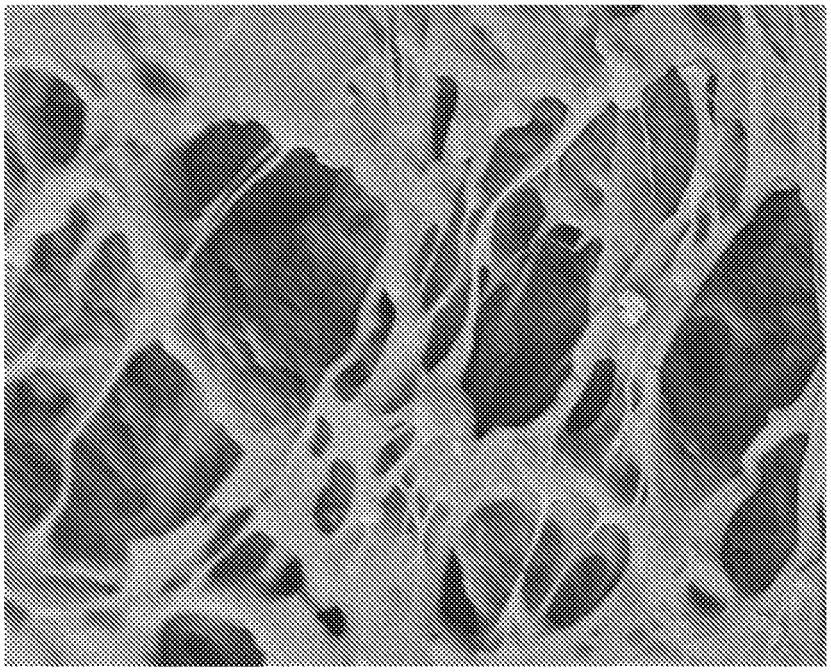


FIG. 12

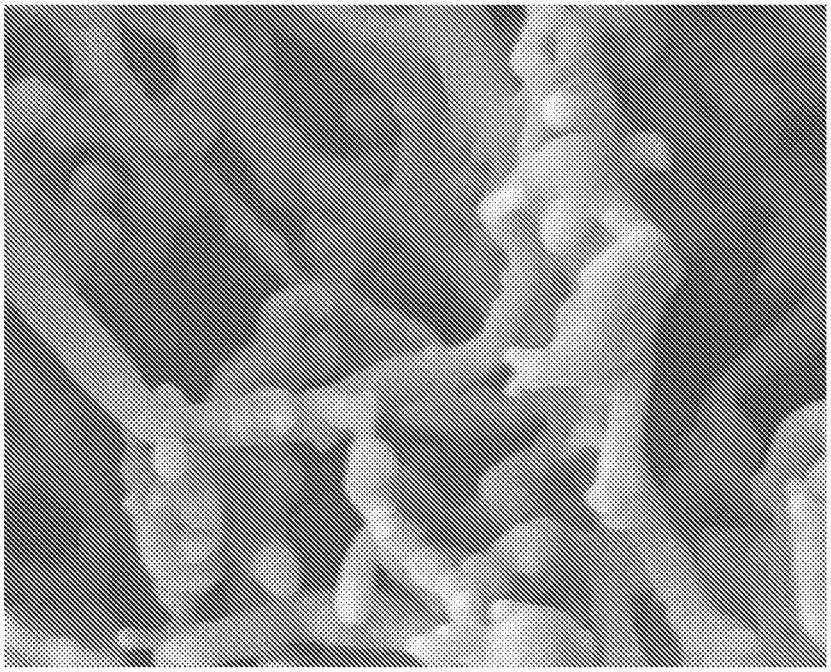


FIG. 13

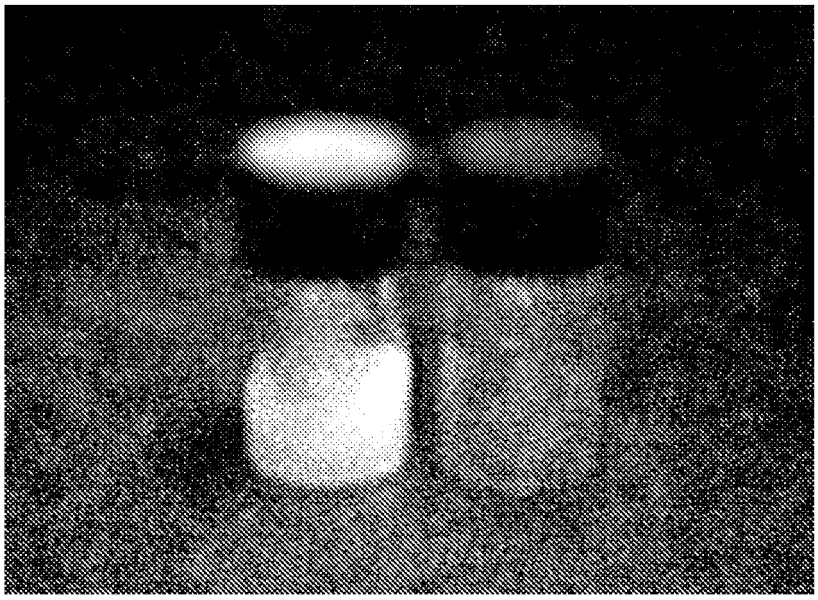


FIG. 14

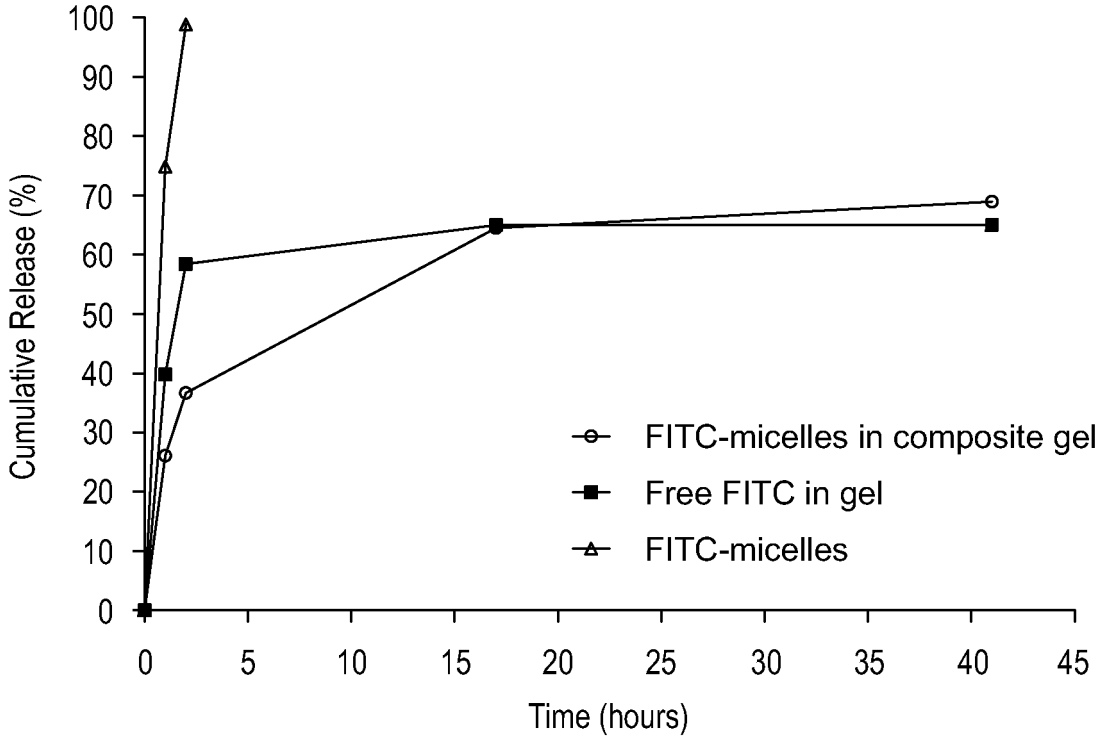

Cumulative Release (%)
100
90
80
70
60
50
40
30
20
10
0
0
5
10
15
20
25
30
35
40
45
Time (hours)
FITC-micelles in composite gel
Free FITC in gel
FITC-micelles

FIG. 15