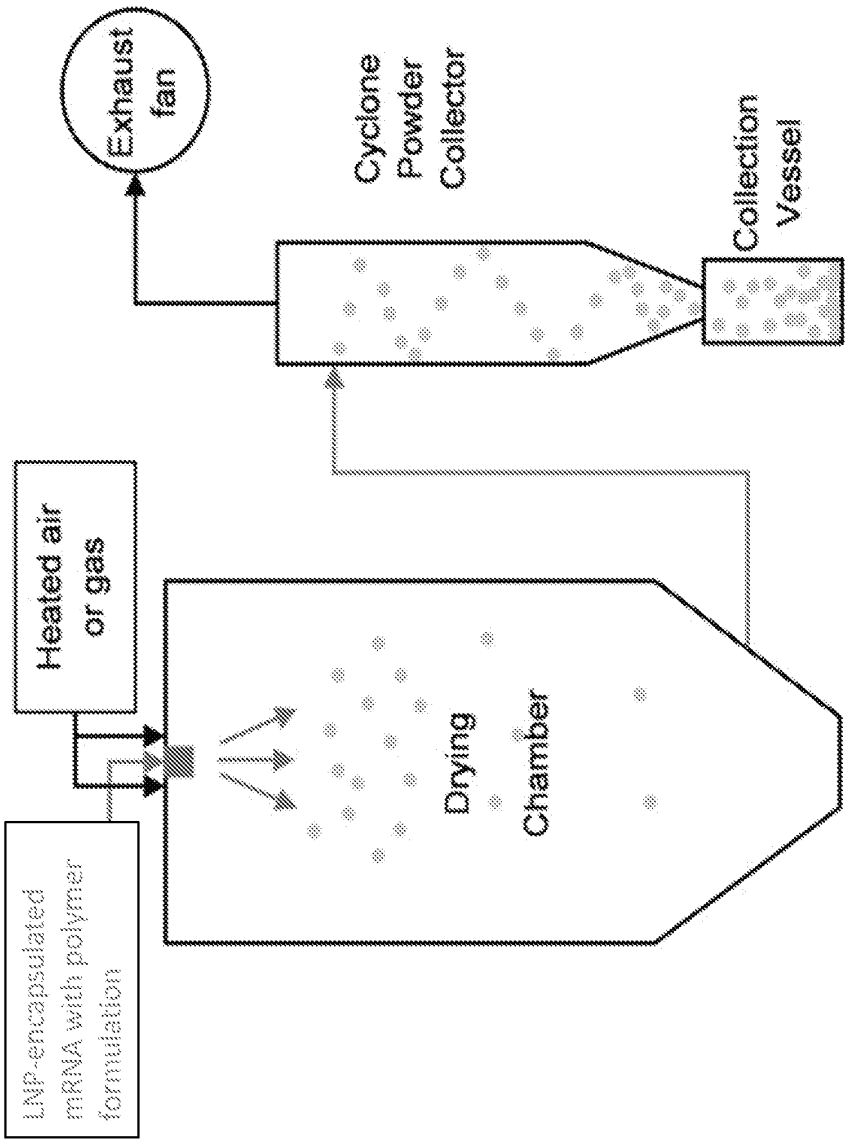

Exhaust fan
Cyclone Powder Collector
Collection Vessel
Heated air or gas
Drying Chamber
LNP-encapsulated mRNA with polymer formulation

FIGURE 1

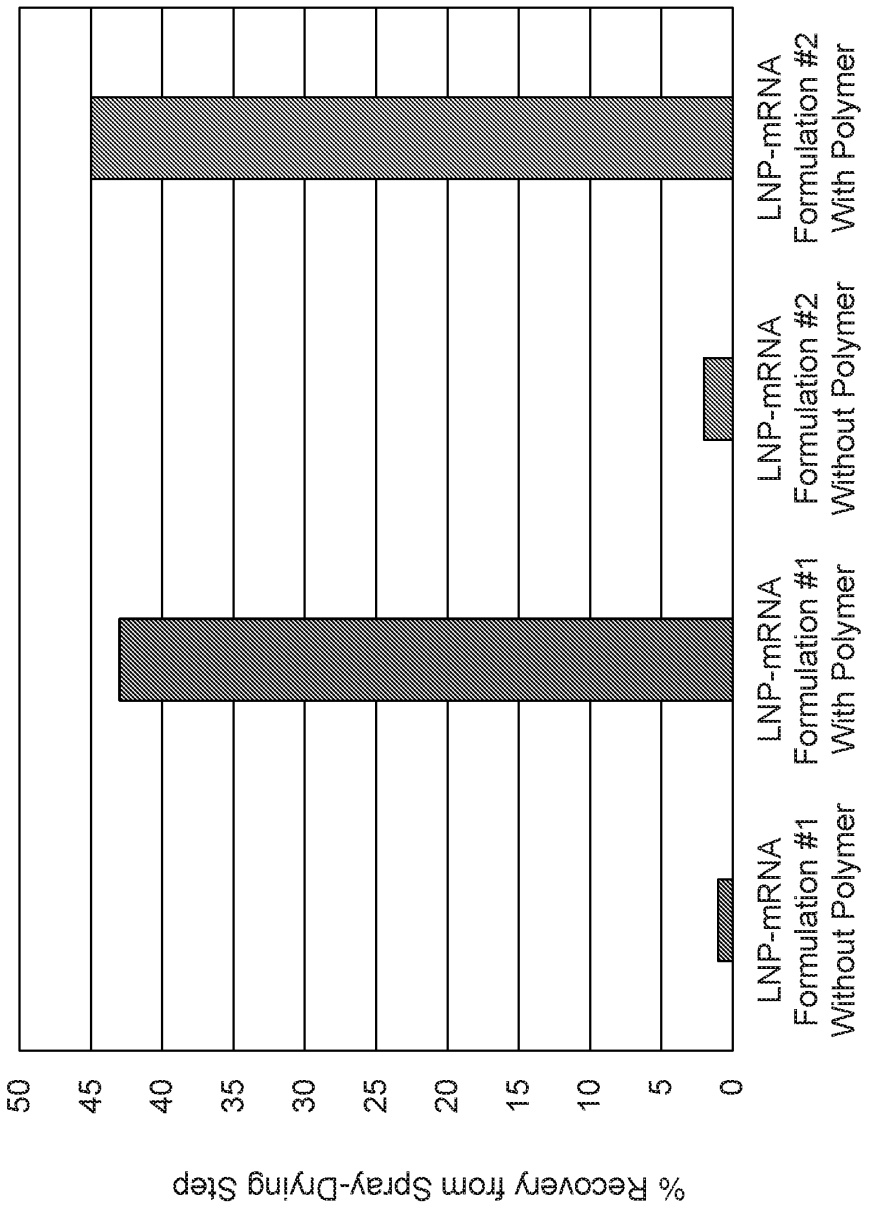

% Recovery from Spray-Drying Step
0
5
10
15
20
25
30
35
40
45
50
LNP-mRNA Formulation #1 Without Polymer
LNP-mRNA Formulation #1 With Polymer
LNP-mRNA Formulation #2 Without Polymer
LNP-mRNA Formulation #2 With Polymer

FIGURE 2

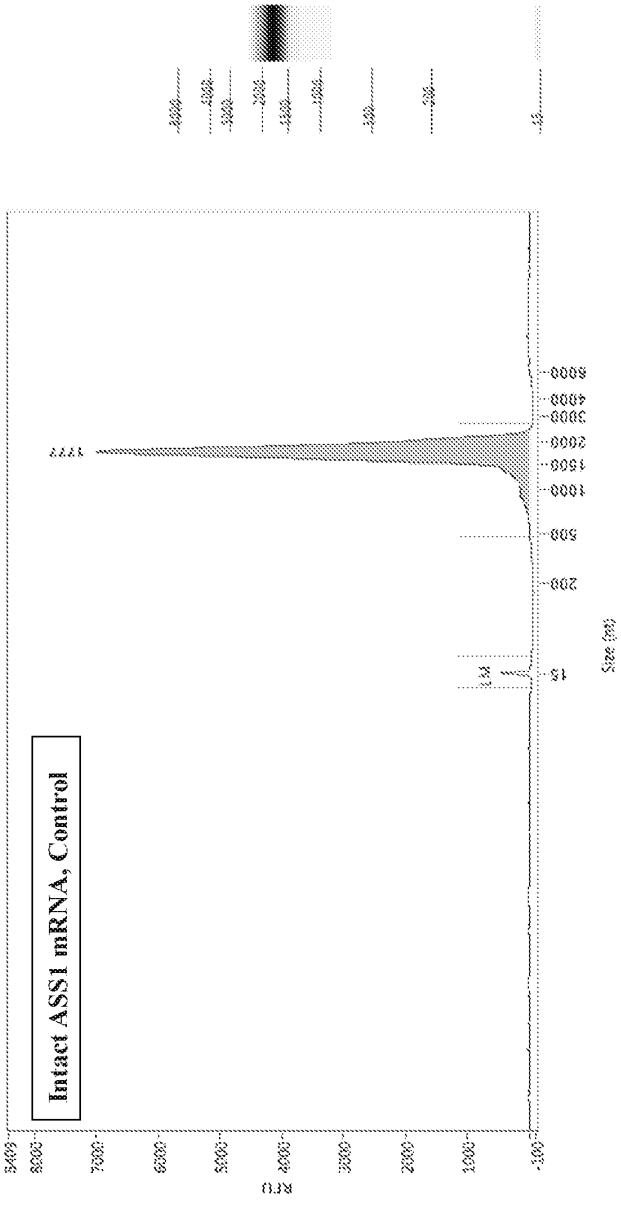



FIGURE 3

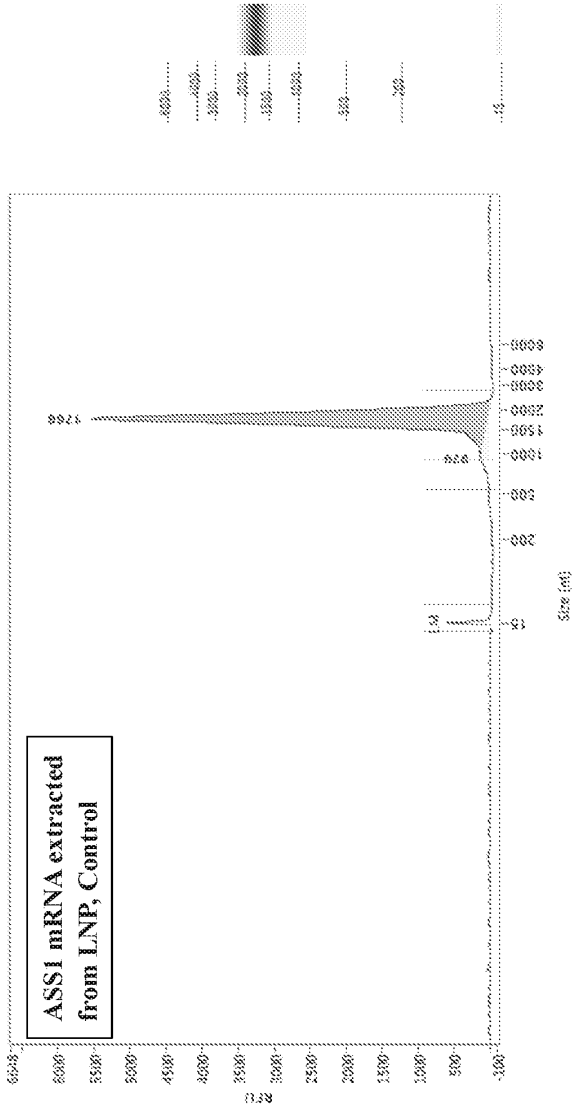



FIGURE 4

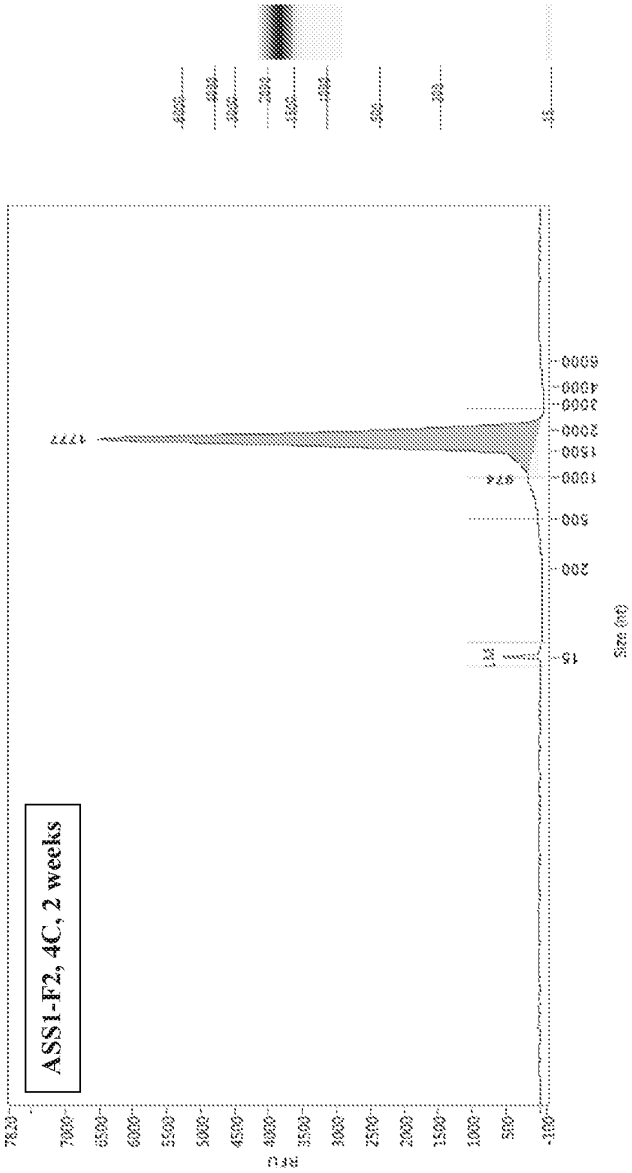

ASS1-F2, 4C, 2 weeks
FU
Size (nt)
4277
674
145
15
200
500
1000
1500
2000
2200
4000
6000
10380
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
-100

FIGURE 5

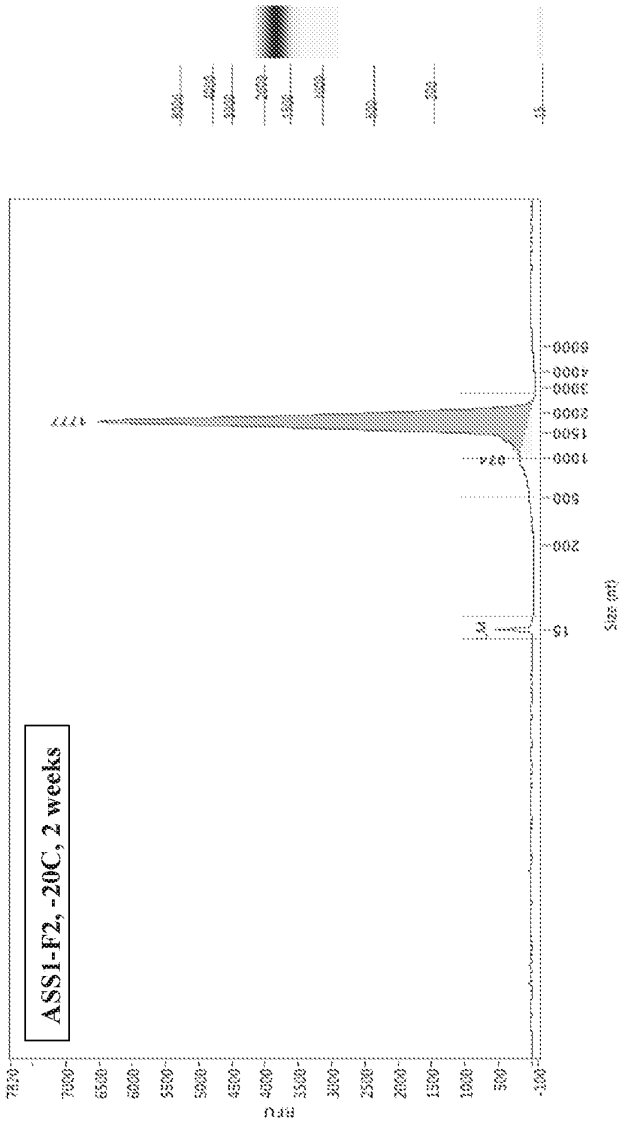



FIGURE 6

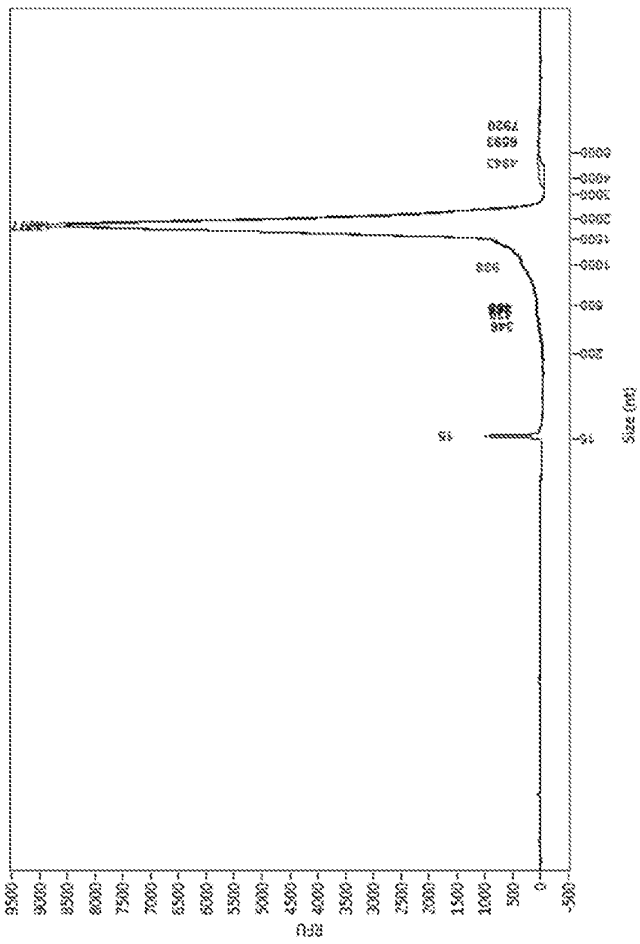

RFU
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
-500
15
322
7928
4461
Size (nt)
35
100
200
300
400
500
1000
1500
2000
3000
4000
5000

FIGURE 7

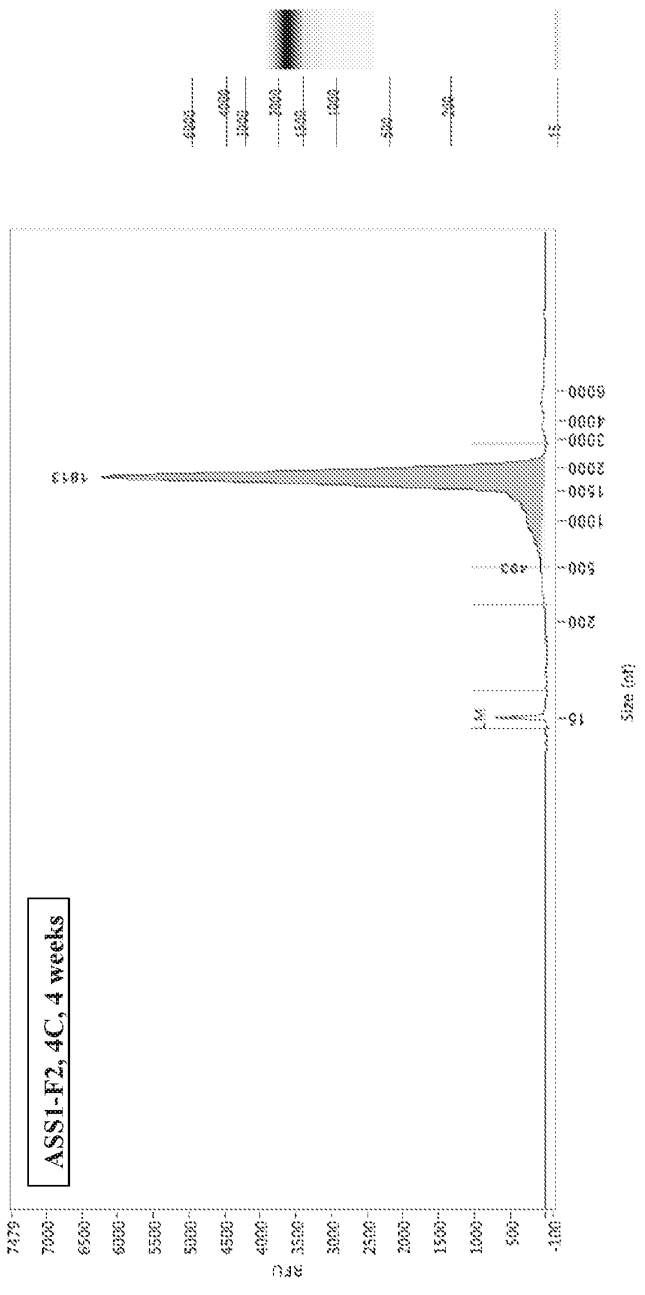

ASS1-F2, 4C, 4 weeks
FU
Size (nt)
1813
433
LM
15
200
500
1000
1500
2000
3000
4000
6000
10380
7479
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
-100

FIGURE 8

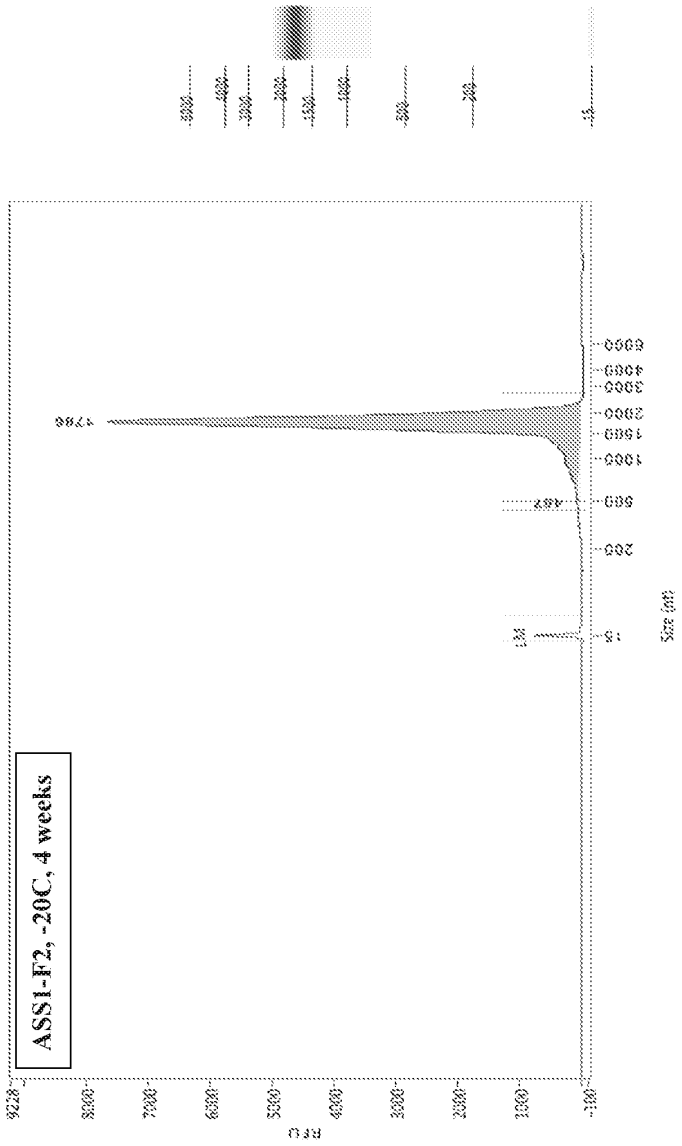



FIGURE 9

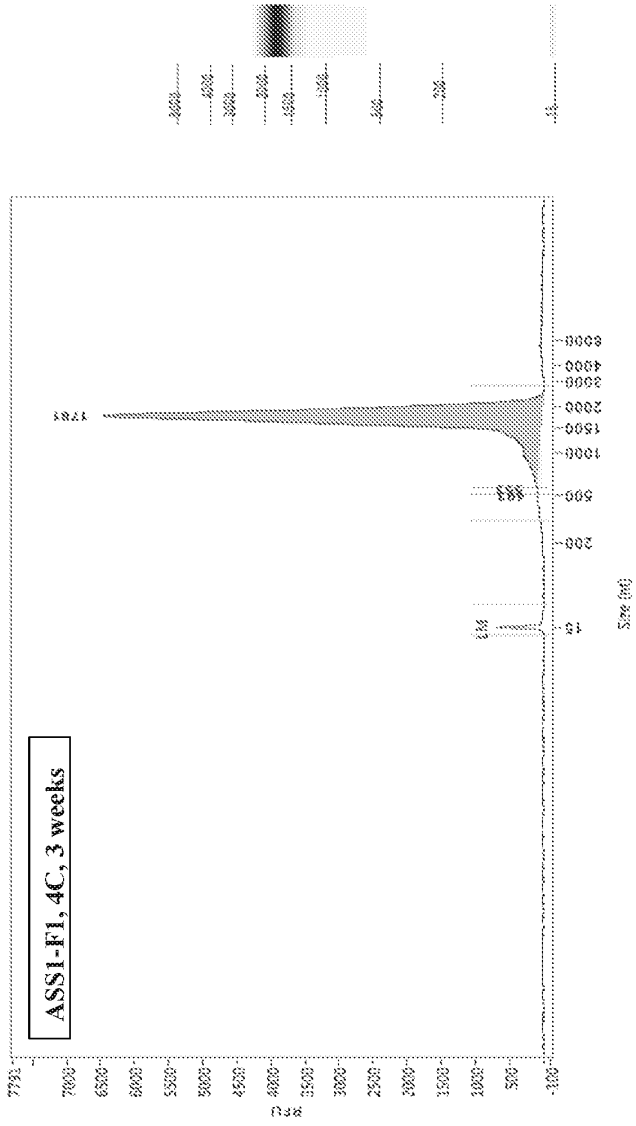



FIGURE 10

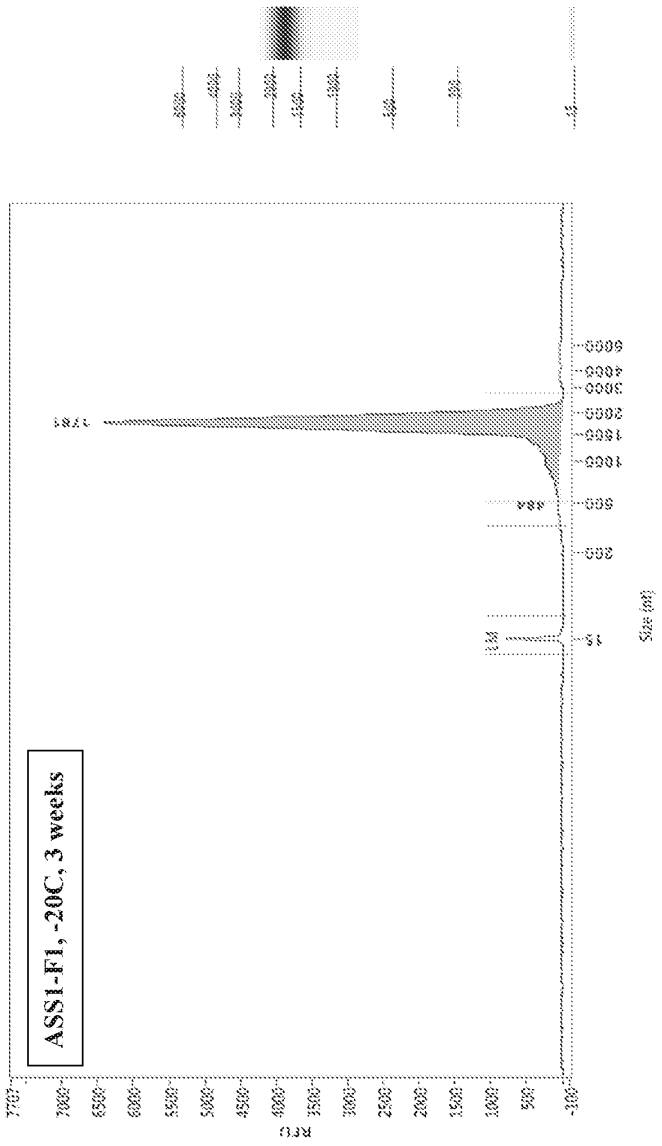



FIGURE 11

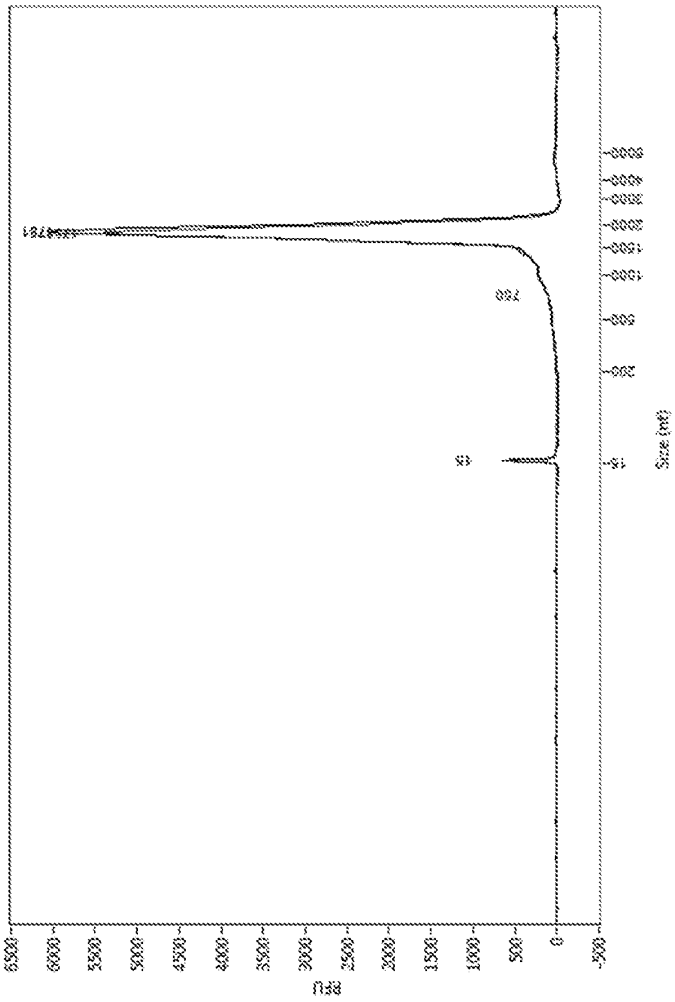

FIU
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
-500
35
78
1781
Size (nt)
15
35
50
100
150
200
250
300
350
400
450
500
550
600

FIGURE 12

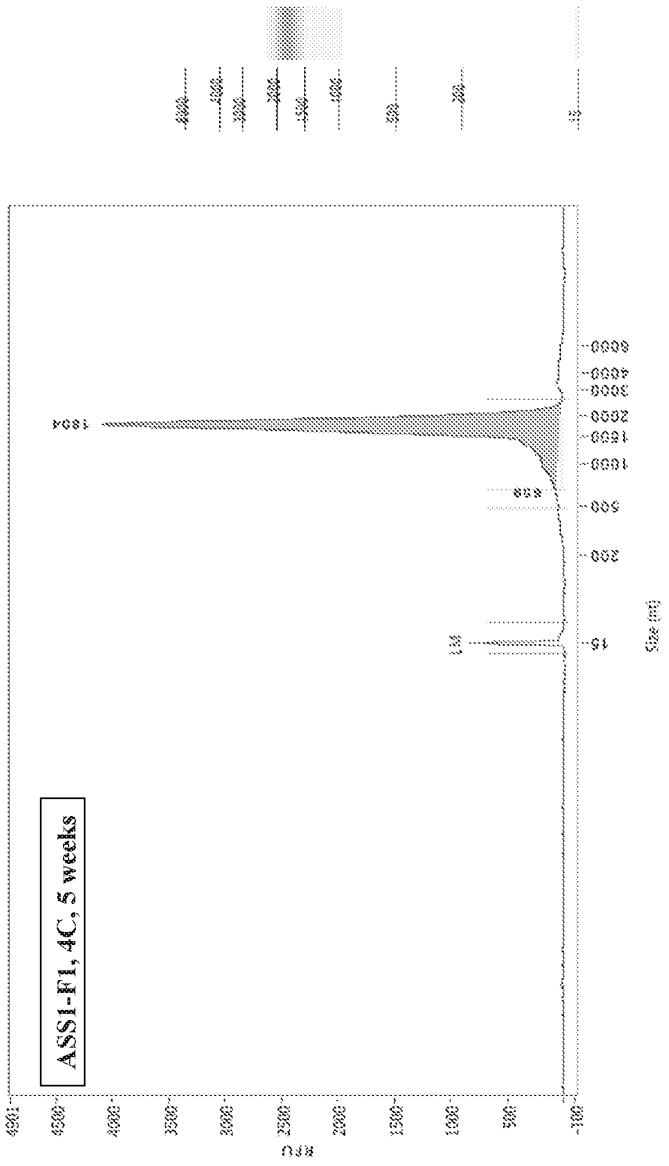

ASS1-F1, 4C, 5 weeks
FU
Size [nt]
1804
458
151
15
200
500
1000
1500
2000
2500
3000
4000
8000
4000
3500
3000
2500
2000
1500
1000
500
100

FIGURE 13

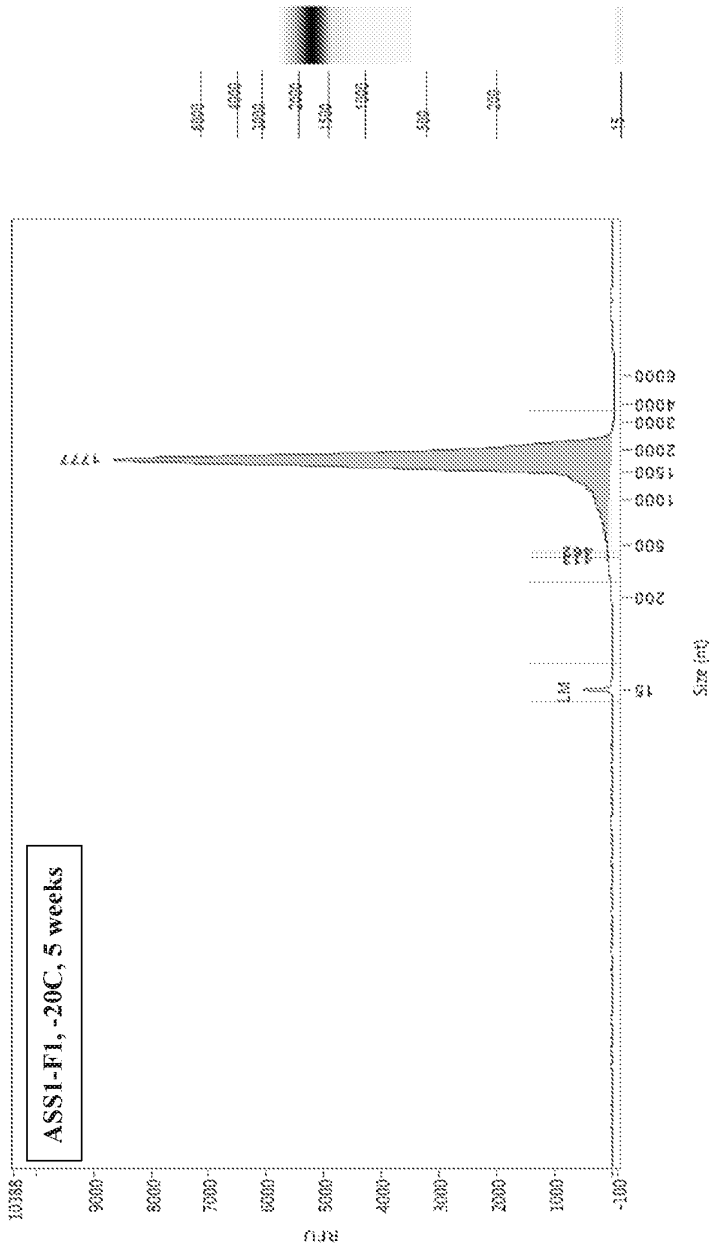

ASS1-F1, -20C, 5 weeks
RFU
Size (nt)
10388
9000
8000
7000
6000
5000
4000
3000
2000
1000
-100
6000
4000
3000
2000
1500
1000
500
200
35
1
12272
343
LM

FIGURE 14

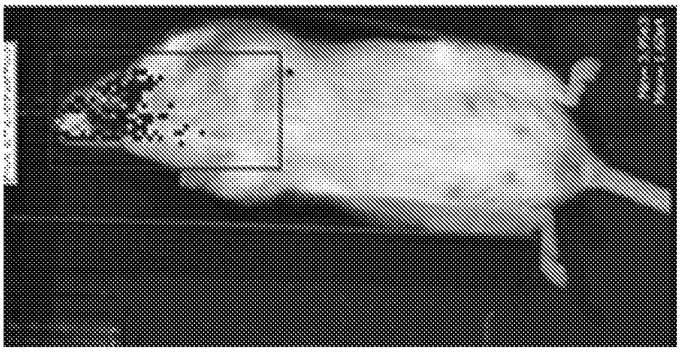


FIGURE 15B

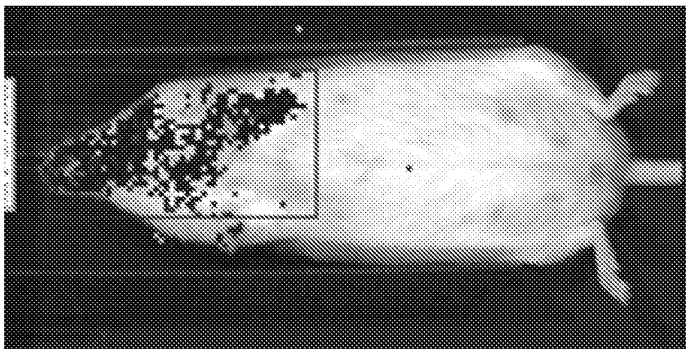


FIGURE 15A

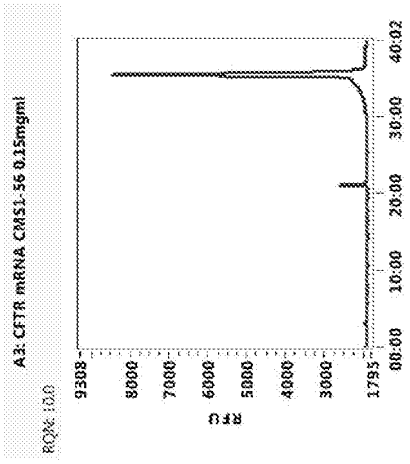



FIGURE 16-A1

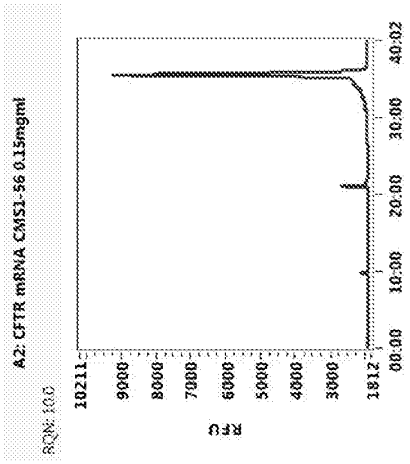



FIGURE 16-A2

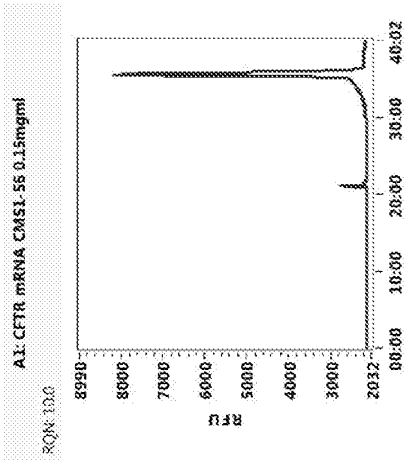



FIGURE 16-A3




FIGURE 16-A4




FIGURE 16-A5

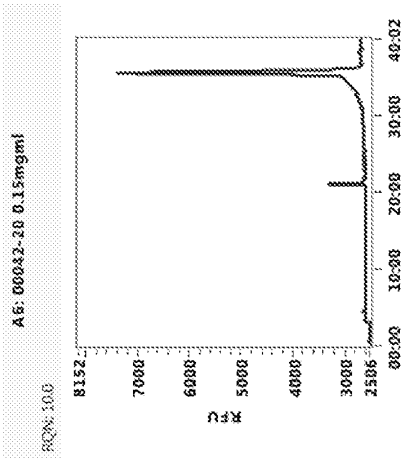



FIGURE 16-A6