FIG. 1

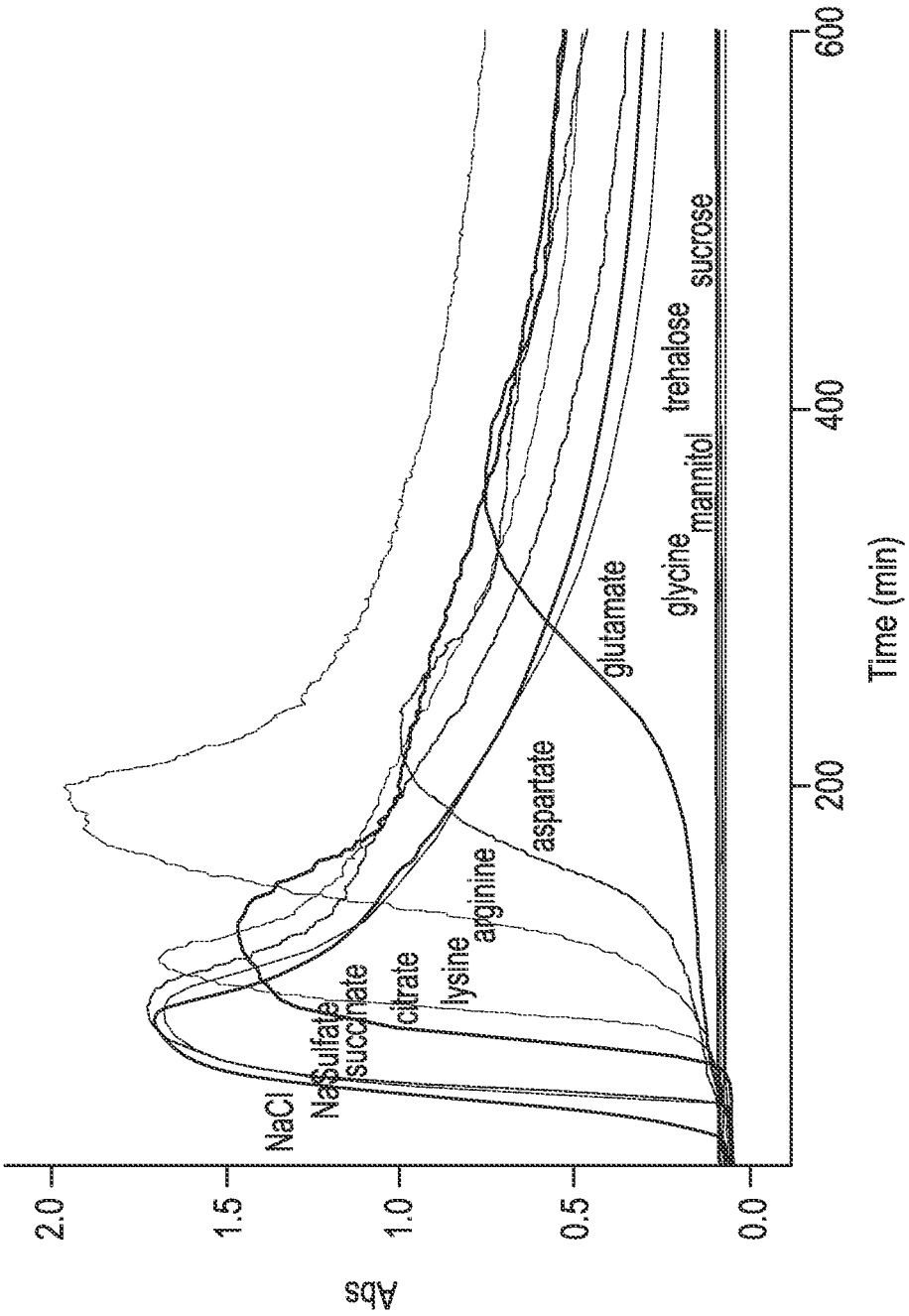

Abs
2.0
1.5
1.0
0.5
0.0
200
400
600
Time (min)
NaCl
Na2sulfate
succinate
citrate
lysine
arginine
aspartate
glutamate
glycine
mannitol
trehalose
sucrose

FIG. 2A

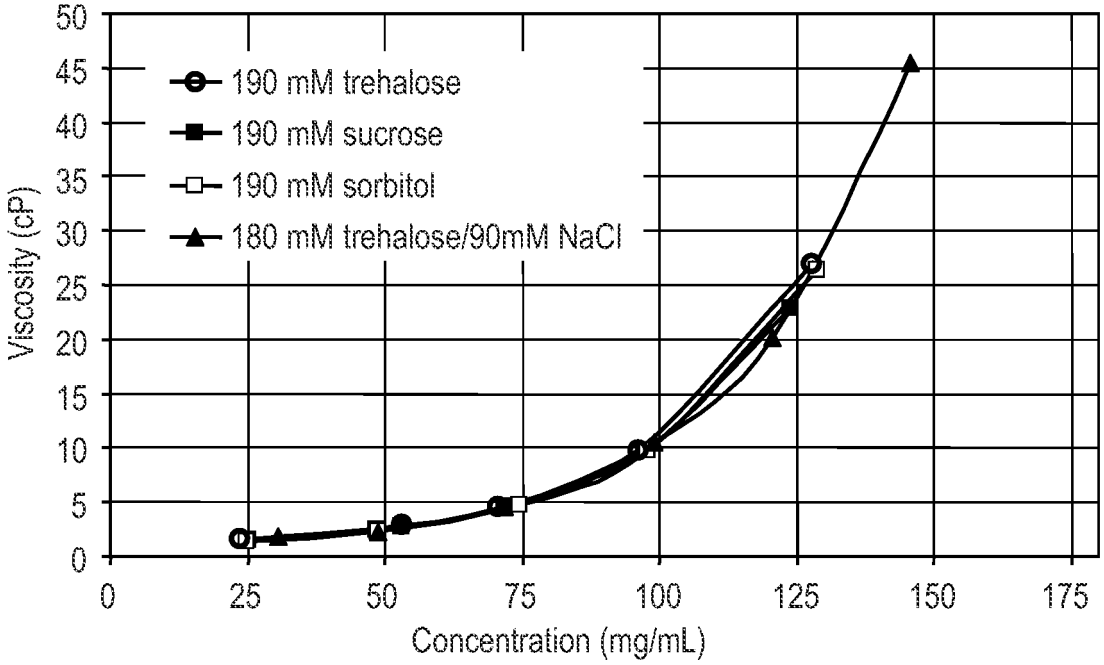

190 mM trehalose
190 mM sucrose
190 mM sorbitol
180 mM trehalose/90mM NaCl
Viscosity (cP)
Concentration (mg/mL)
0
5
10
15
20
25
30
35
40
45
50
0
25
50
75
100
125
150
175

FIG. 2B

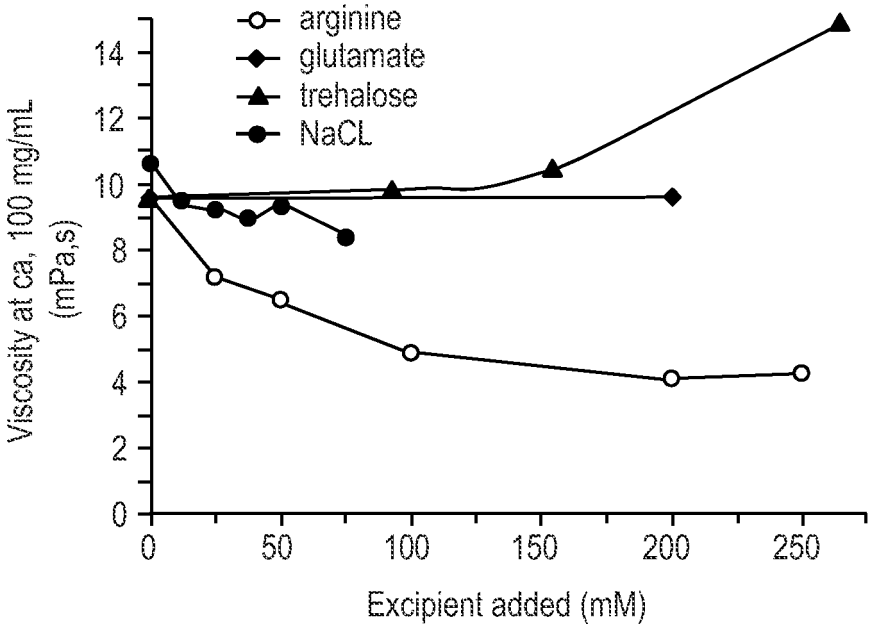

arginine
glutamate
trehalose
NaCL
Viscosity at ca, 100 mg/mL (mPa,s)
Excipient added (mM)
0
2
4
6
8
10
12
14
0
50
100
150
200
250

FIG. 3

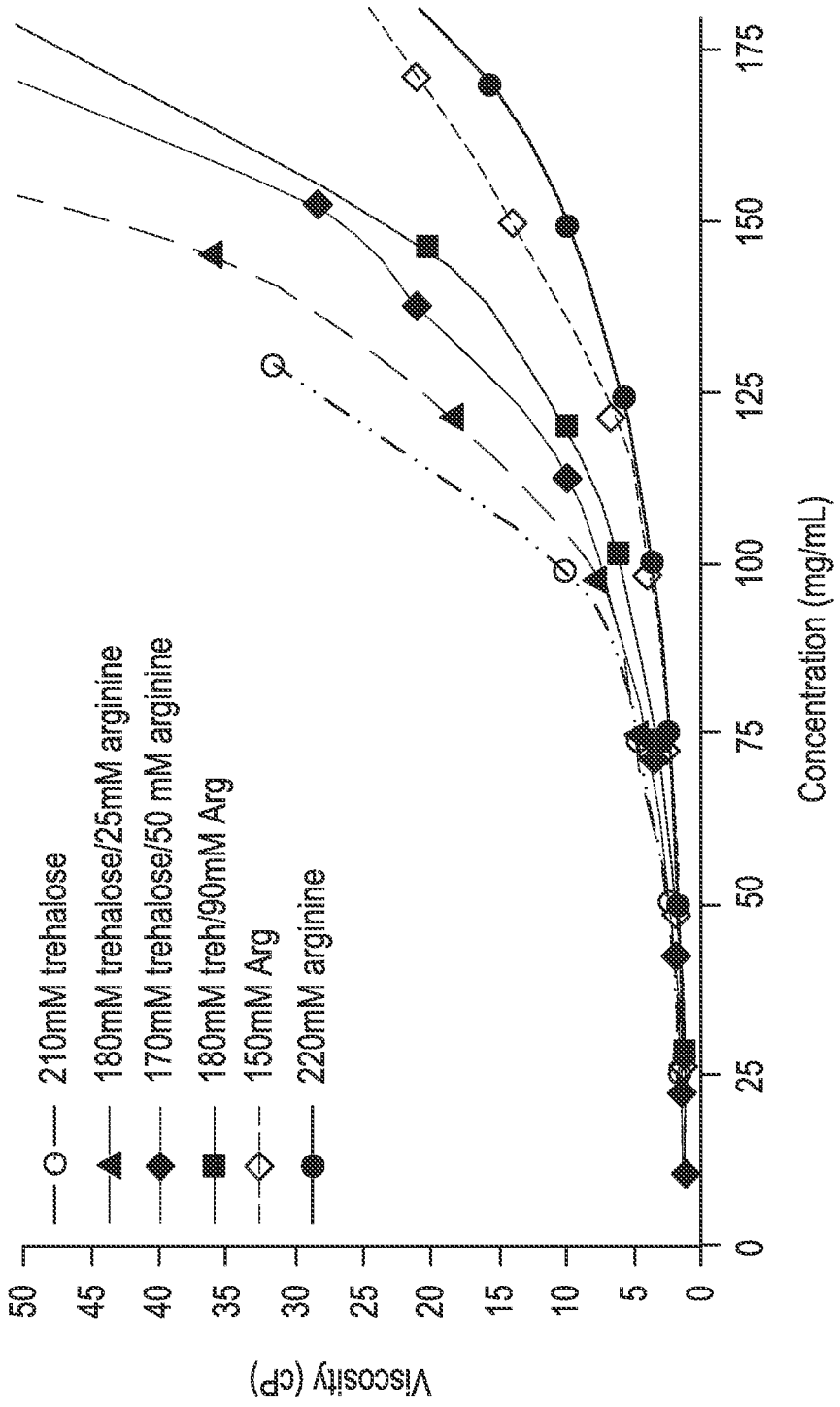

210mM trehalose
180mM trehalose/25mM arginine
170mM trehalose/50 mM arginine
180mM treh/90mM Arg
150mM Arg
220mM arginine
Viscosity (cP)
Concentration (mg/mL)
0
5
10
15
20
25
30
35
40
45
50
0
25
50
75
100
125
150
175

FIG. 4

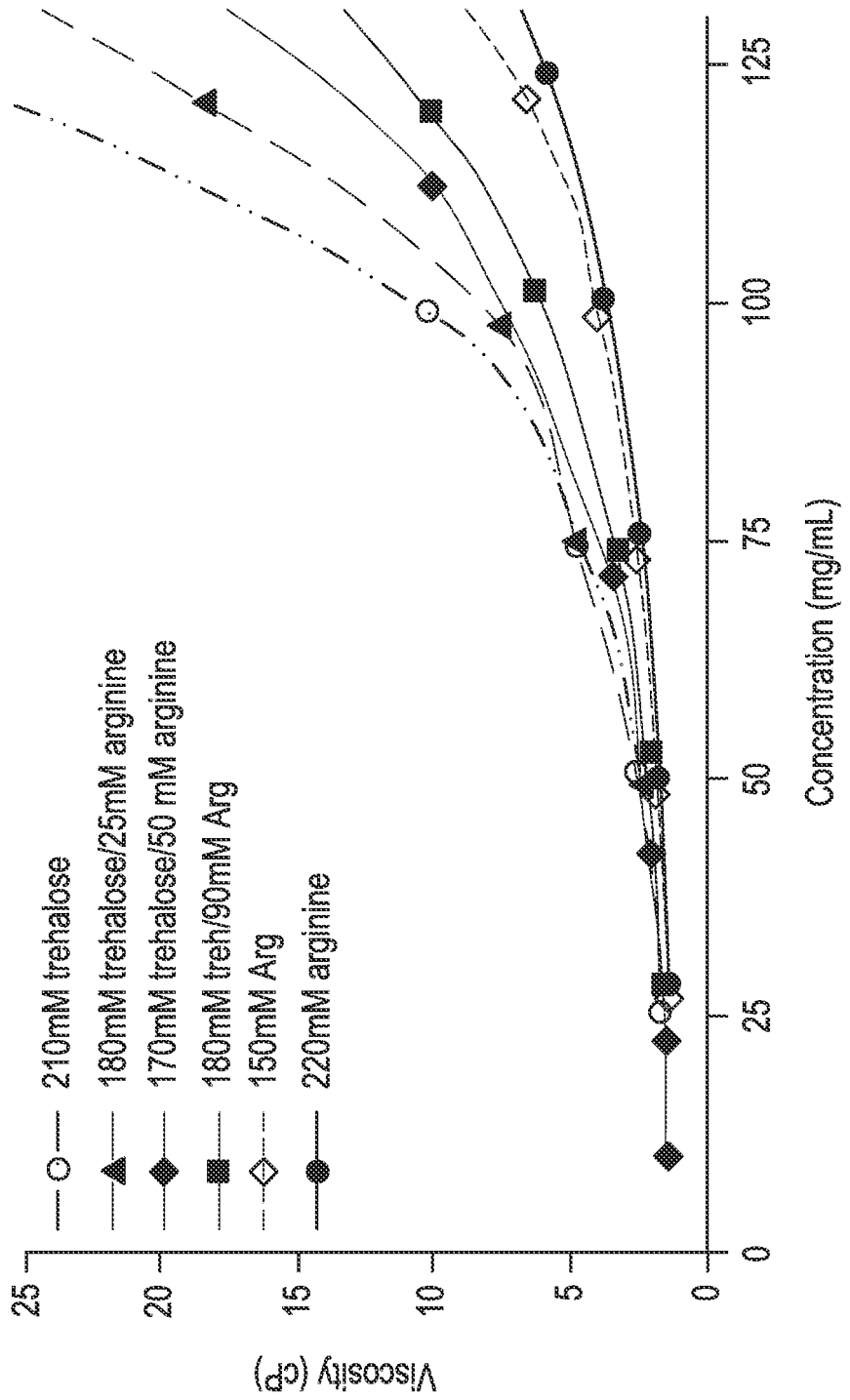

Viscosity (cP)
25
20
15
10
5
0
0
25
50
75
100
125
Concentration (mg/mL)
210mM trehalose
180mM trehalose/25mM arginine
170mM trehalose/50 mM arginine
180mM treh/90mM Arg
150mM Arg
220mM arginine

FIG. 5

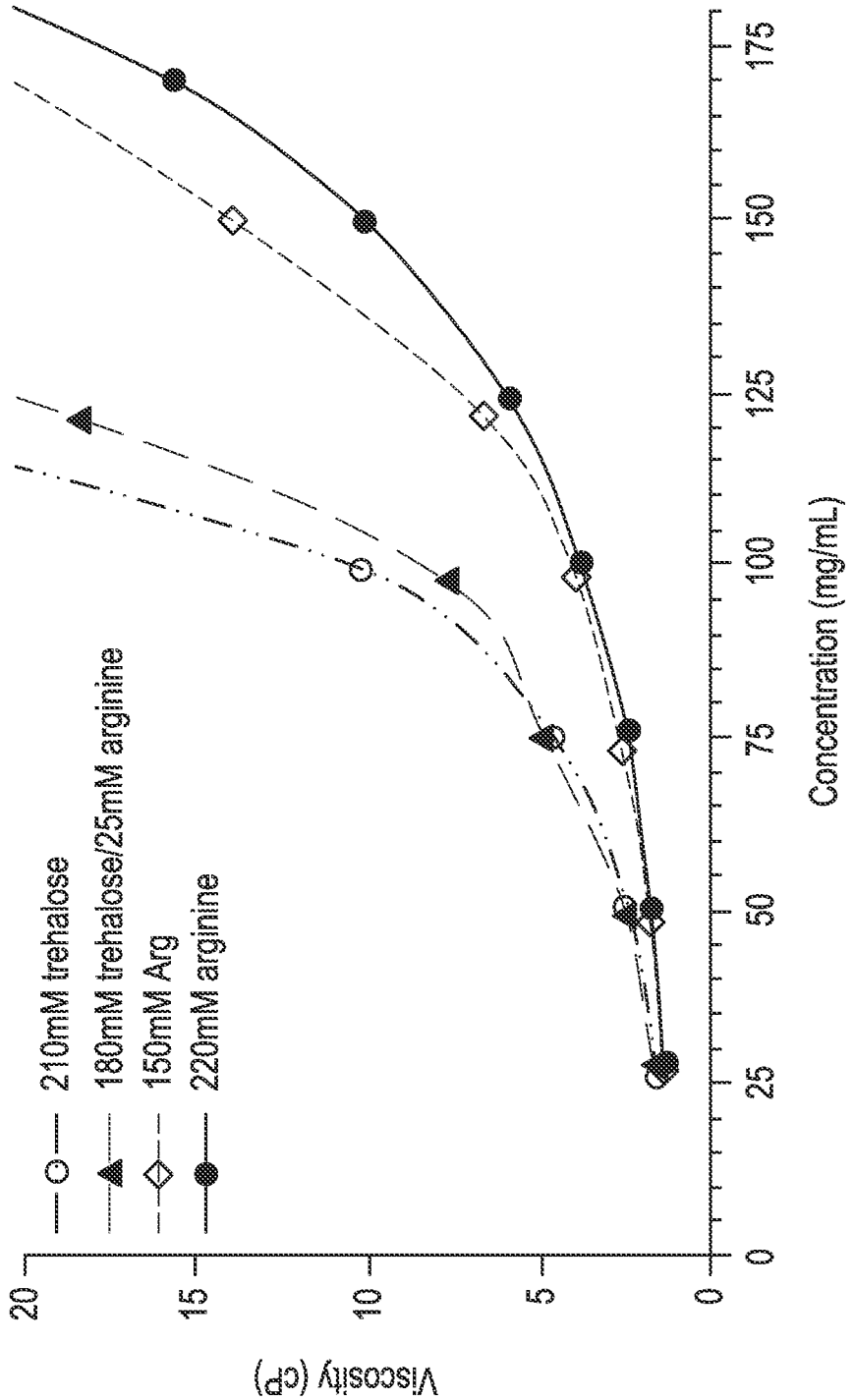

Viscosity (cP)
20
15
10
5
0
0
25
50
75
100
125
150
175
Concentration (mg/mL)
210mM trehalose
180mM trehalose/25mM arginine
150mM Arg
220mM arginine

FIG. 6

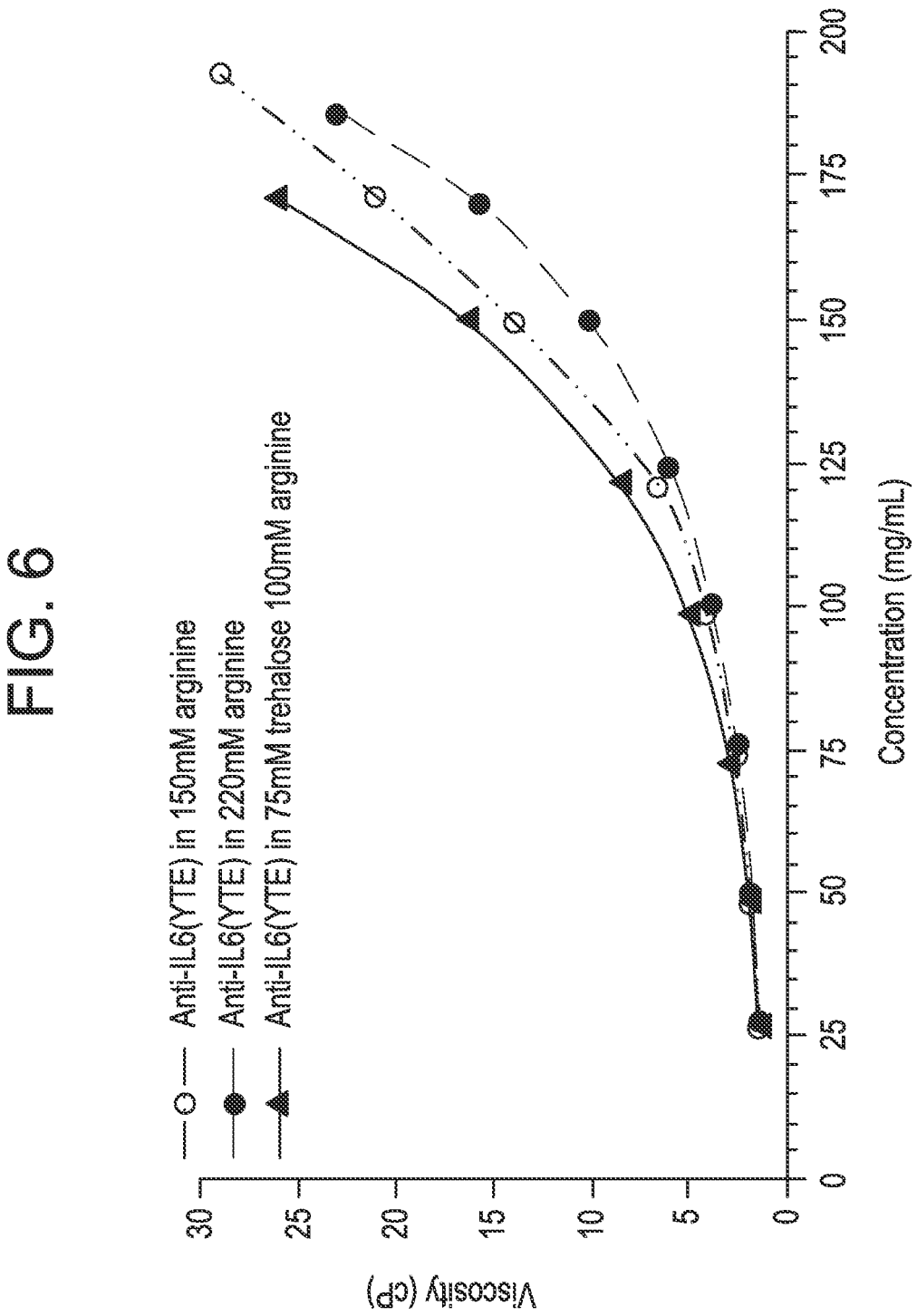

Anti-IL6(YTE) in 150mM arginine
Anti-IL6(YTE) in 220mM arginine
Anti-IL6(YTE) in 75mM trehalose 100mM arginine
Viscosity (cP)
Concentration (mg/mL)
0
5
10
15
20
25
30
0
25
50
75
100
125
150
175
200

FIG. 7

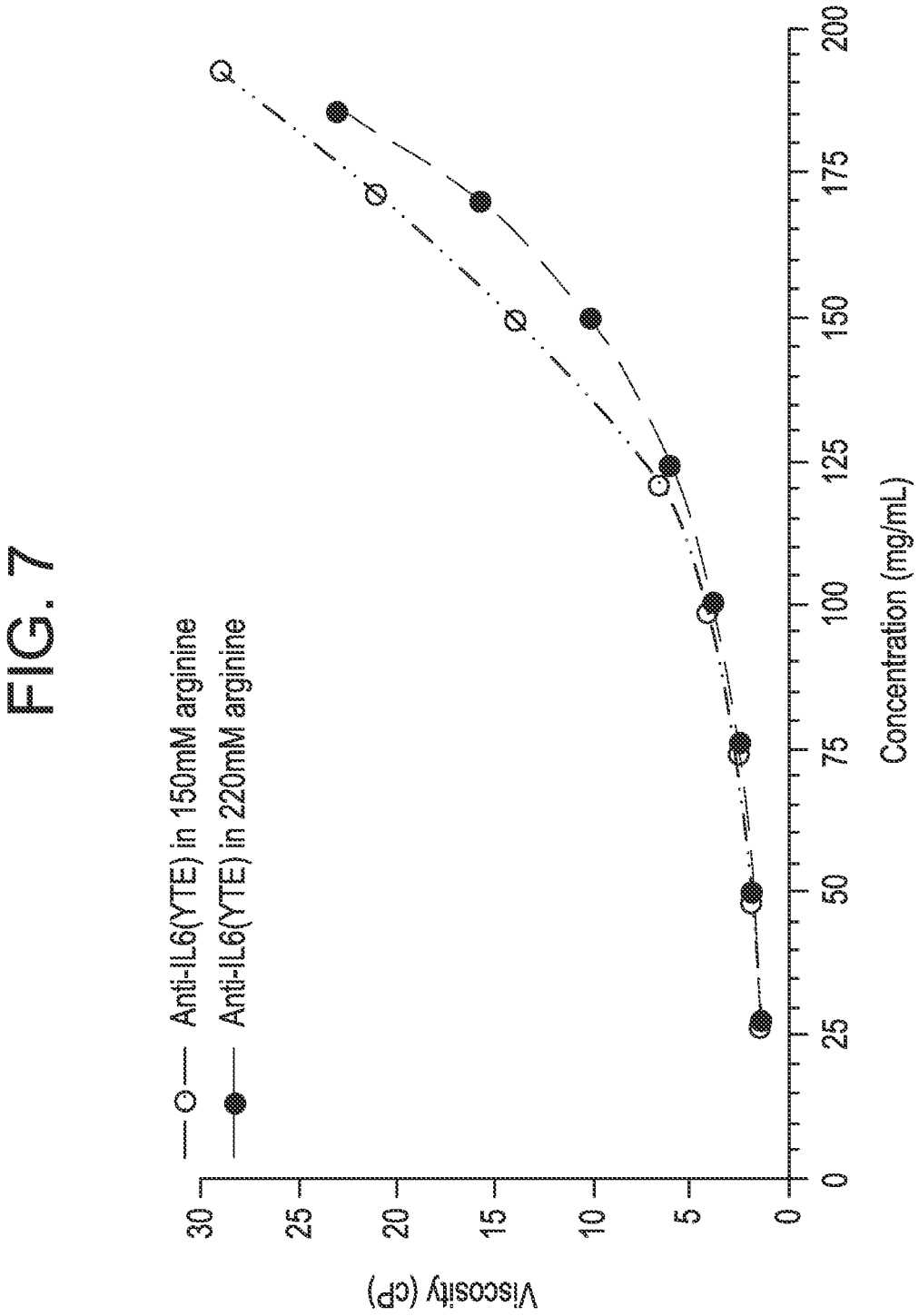

Anti-IL6(YTE) in 150mM arginine
Anti-IL6(YTE) in 220mM arginine
Viscosity (cP)
Concentration (mg/mL)
0
5
10
15
20
25
30
0
25
50
75
100
125
150
175
200

FIG. 8

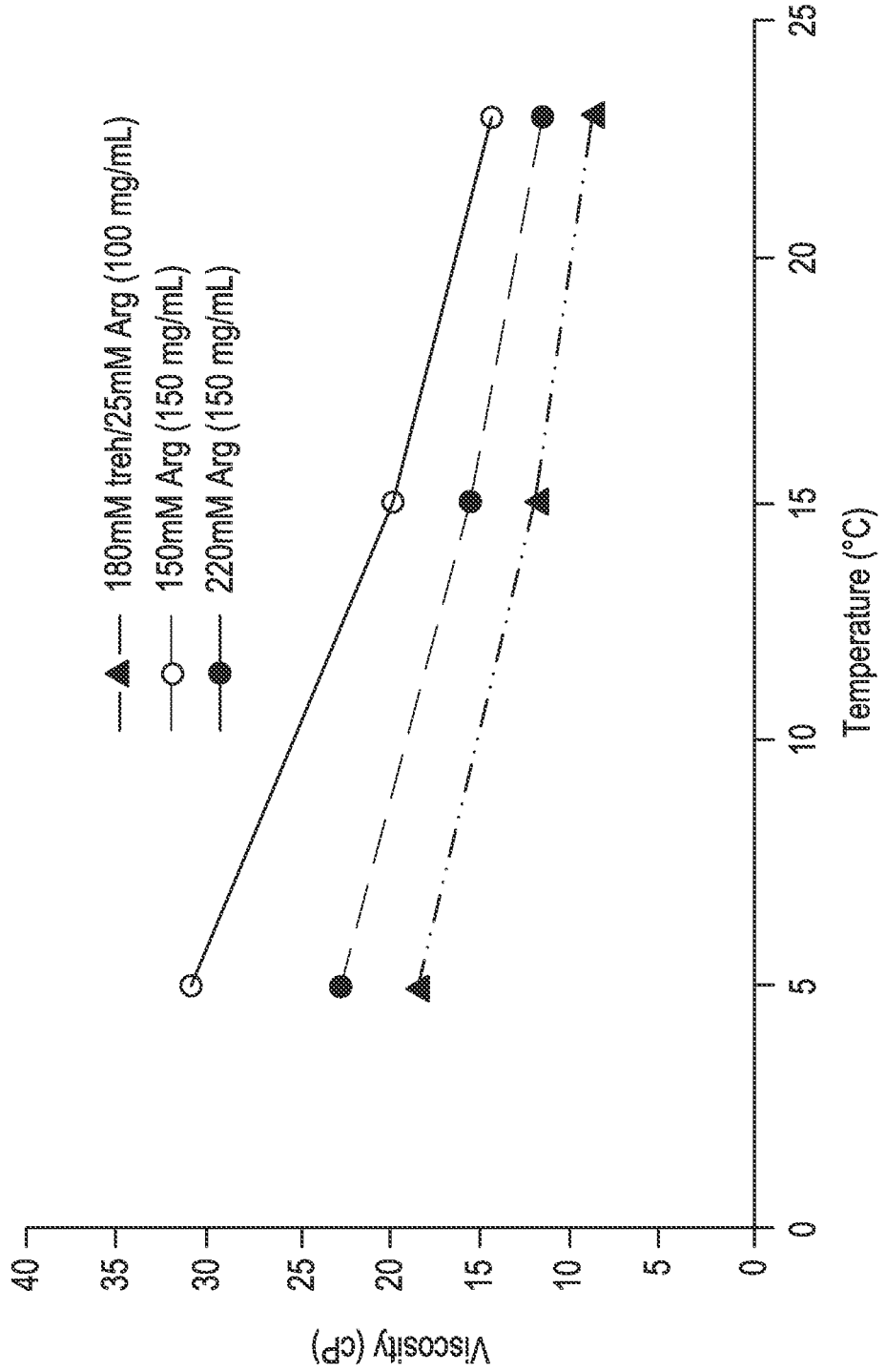

180mM treh/25mM Arg (100 mg/mL)
150mM Arg (150 mg/mL)
220mM Arg (150 mg/mL)
Viscosity (cP)
Temperature (°C)
0
5
10
15
20
25
30
35
40

FIG. 9

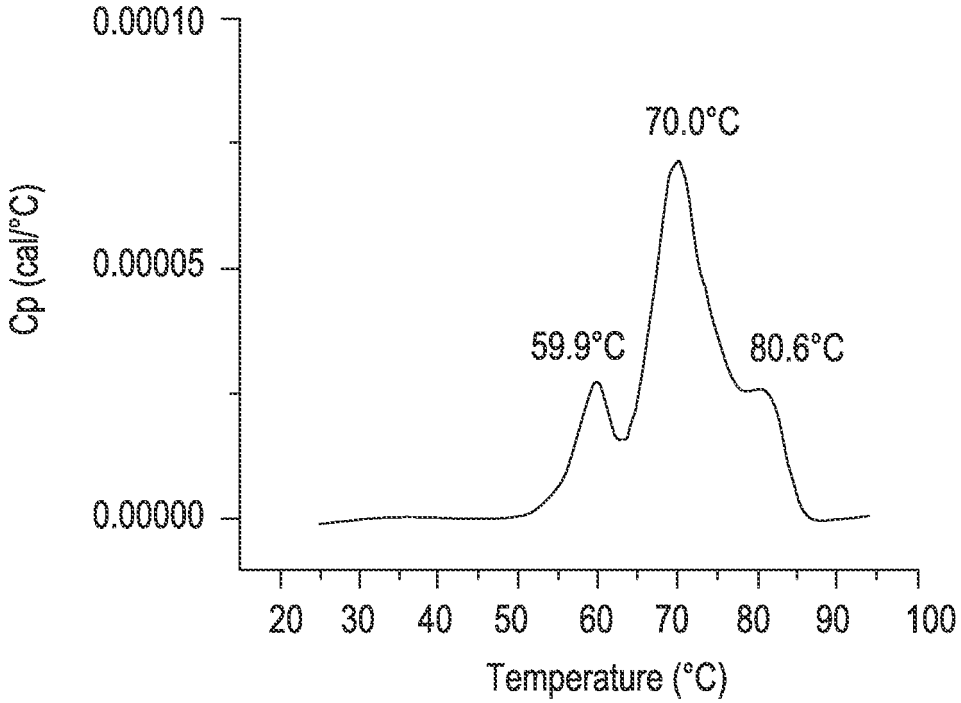

0.00010
0.00005
0.00000
Cp (cal/°C)
70.0°C
59.9°C
80.6°C
20
30
40
50
60
70
80
90
100
Temperature (°C)

FIG. 10

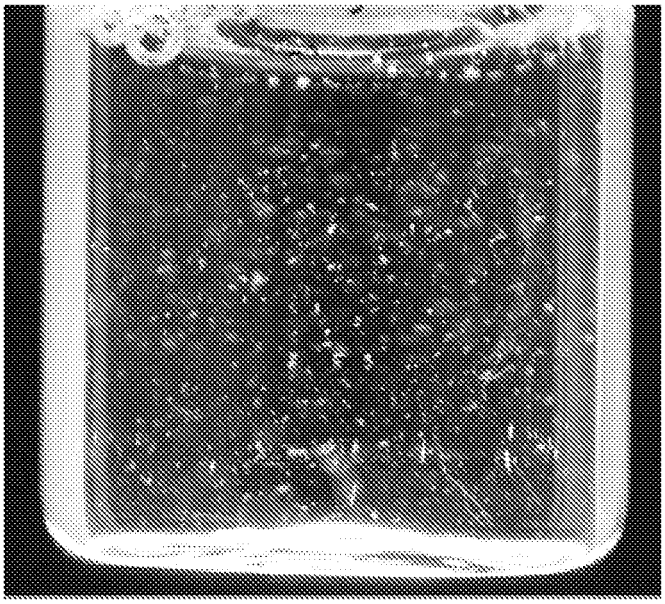


FIG. 11

