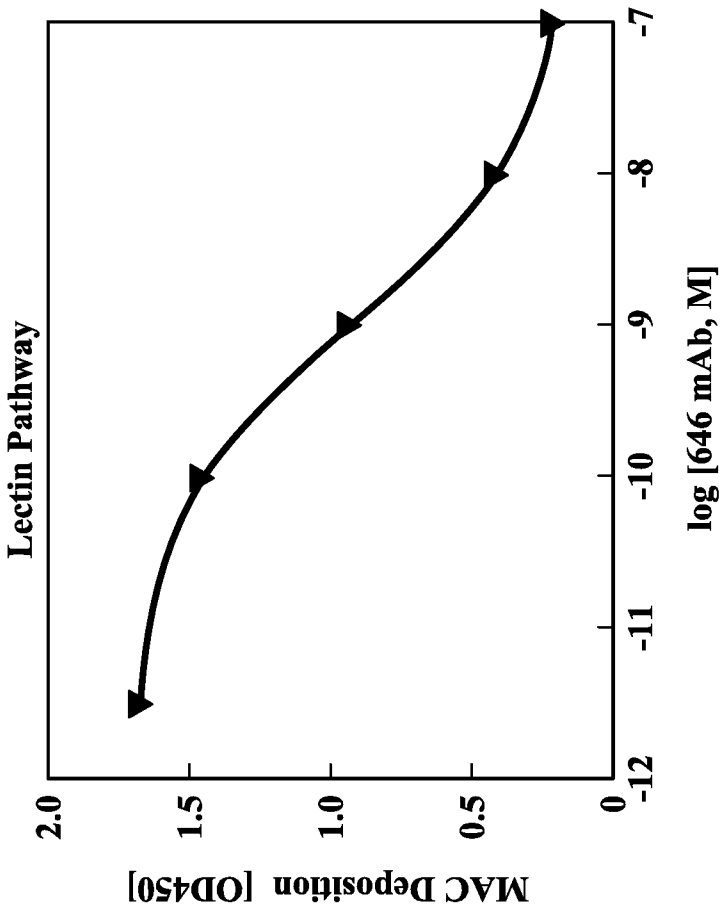

Lectin Pathway
MAC Deposition [OD450]
2.0
1.5
1.0
0.5
0
-12
-11
-10
-9
-8
-7
log [646 mAb, M]

FIG. 1A

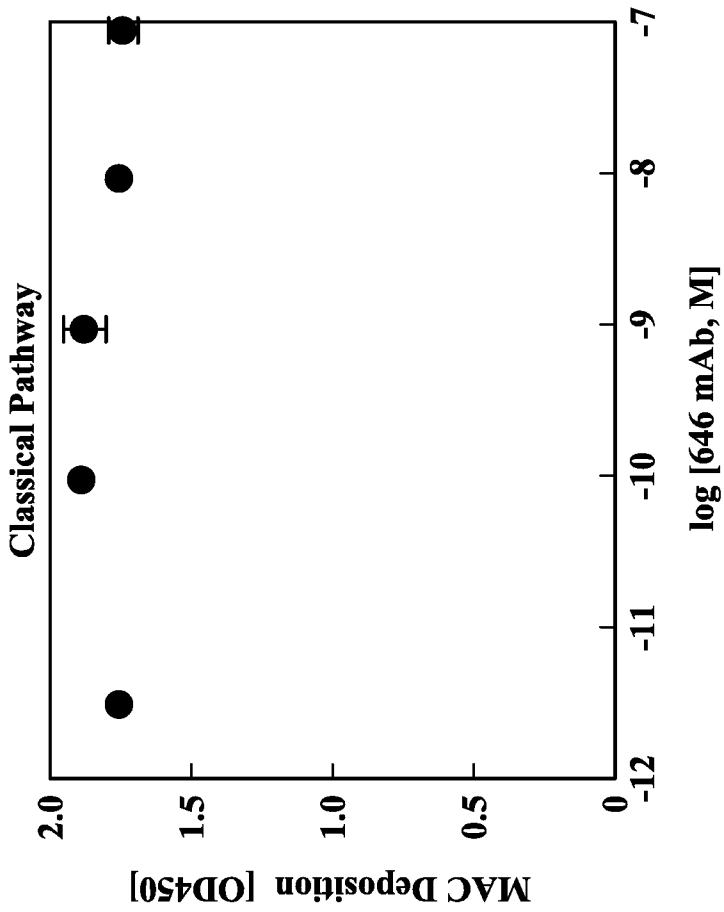

Classical Pathway
MAC Deposition [OD450]
2.0
1.5
1.0
0.5
0
-12
-11
-10
-9
-8
-7
log [646 mAb, M]

FIG. 1B

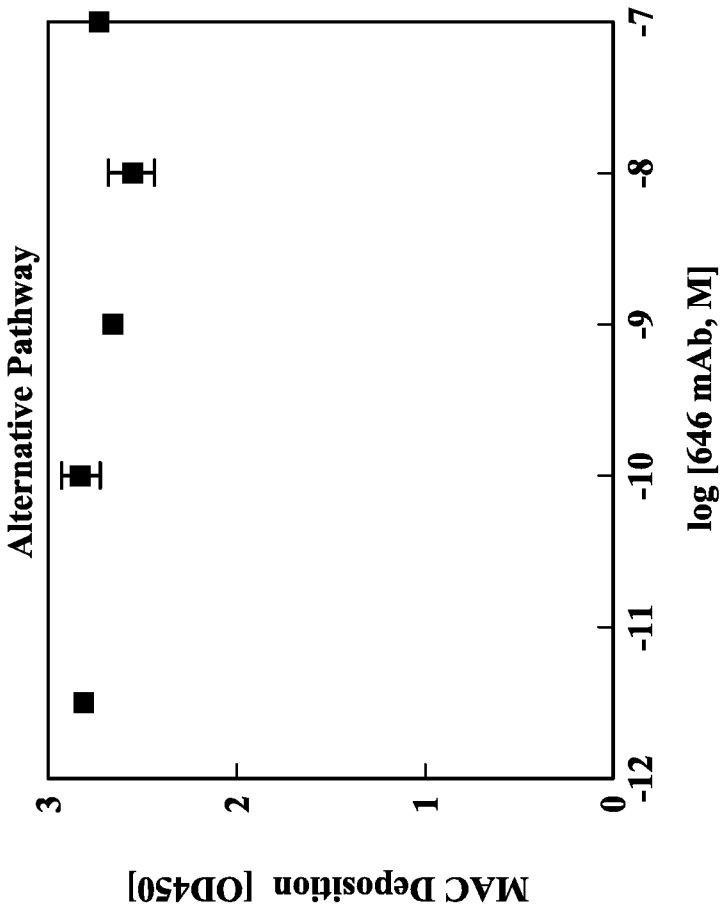

Alternative Pathway
MAC Deposition [OD450]
3
2
1
0
-12
-11
-10
-9
-8
-7
log [646 mAb, M]

FIG.1C

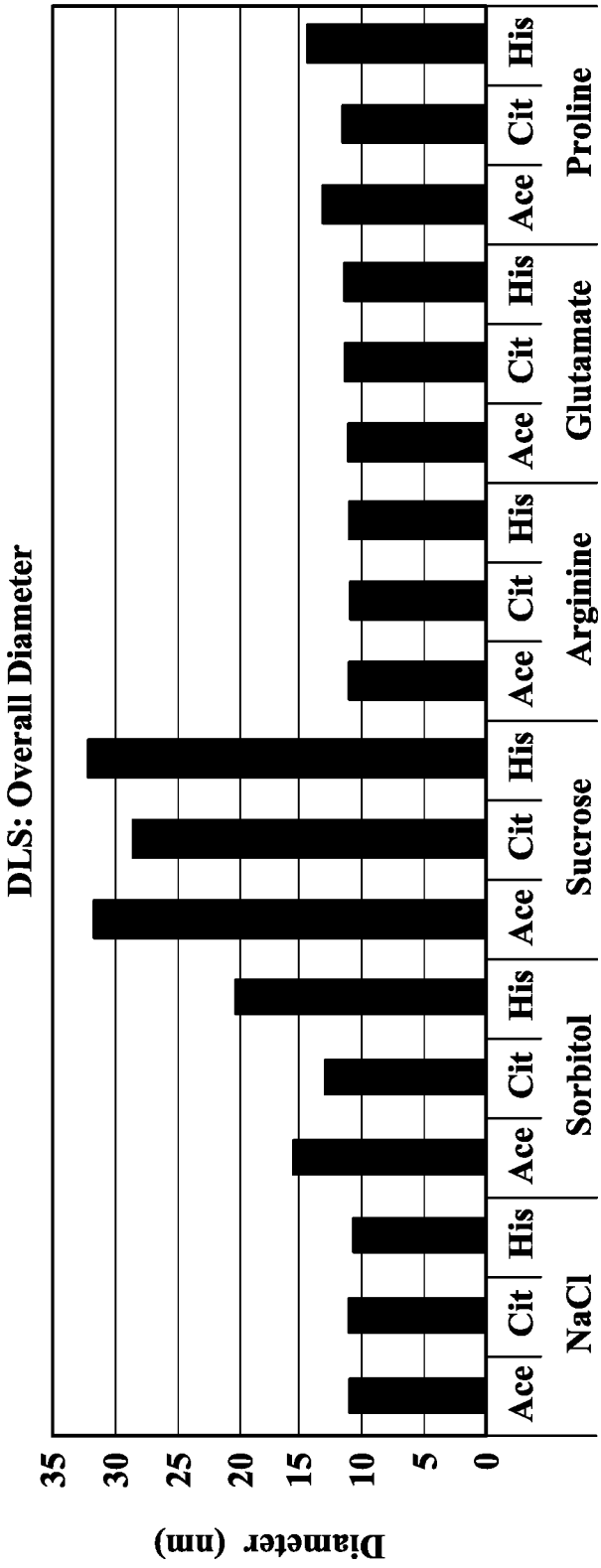

DLS: Overall Diameter
Diameter (nm)
0
5
10
15
20
25
30
35
Ace
Cit
His
NaCl
Ace
Cit
His
Sorbitol
Ace
Cit
His
Sucrose
Ace
Cit
His
Arginine
Ace
Cit
His
Glutamate
Ace
Cit
His
Proline

FIG.2A

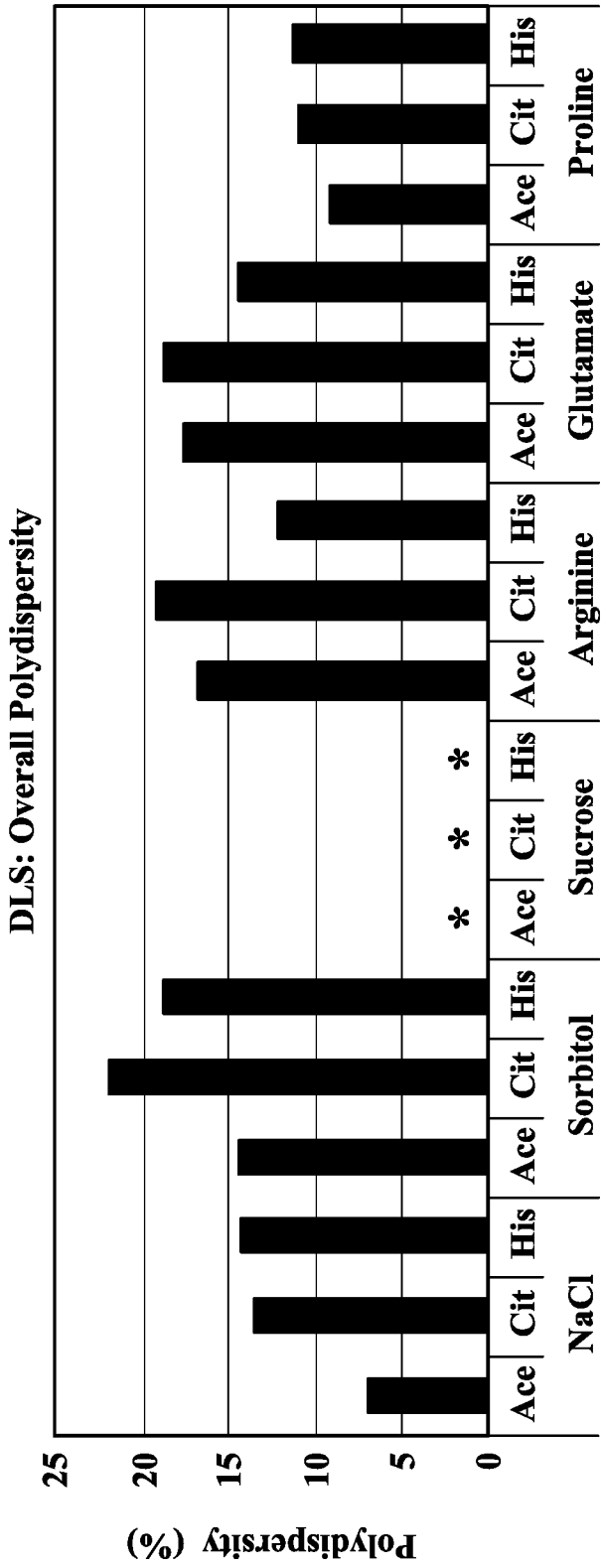

DLS: Overall Polydispersity
Polydispersity (%)
25
20
15
10
5
0
* Multimodal
Ace
Cit
His
NaCl
Sorbitol
Sucrose
Arginine
Glutamate
Proline
*
*
*

FIG.2B

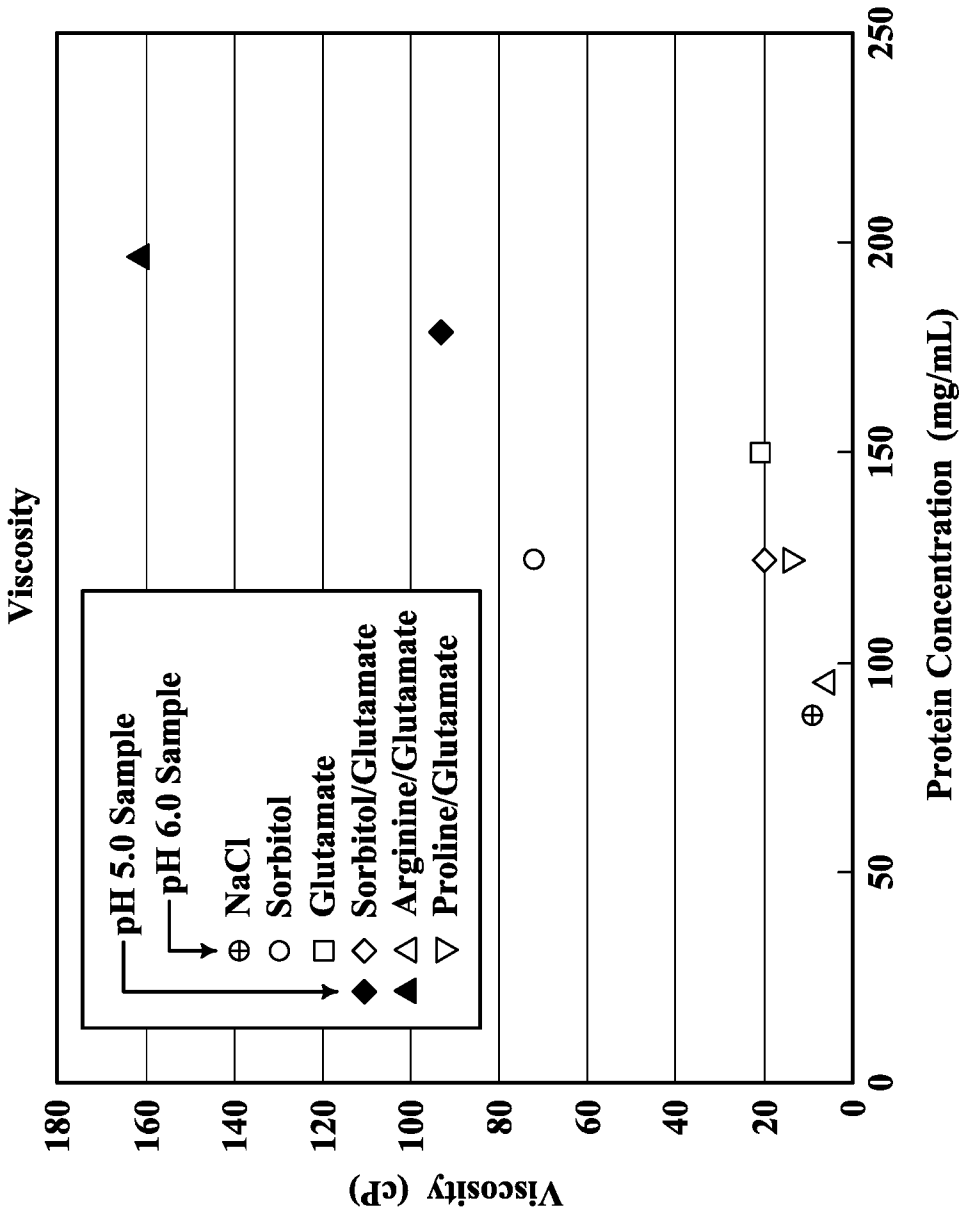

Viscosity
pH 5.0 Sample
pH 6.0 Sample
NaCl
Sorbitol
Glutamate
Sorbitol/Glutamate
Arginine/Glutamate
Proline/Glutamate
Viscosity (cP)
180
160
140
120
100
80
60
40
20
0
0
50
100
150
200
250
Protein Concentration (mg/mL)

FIG.3

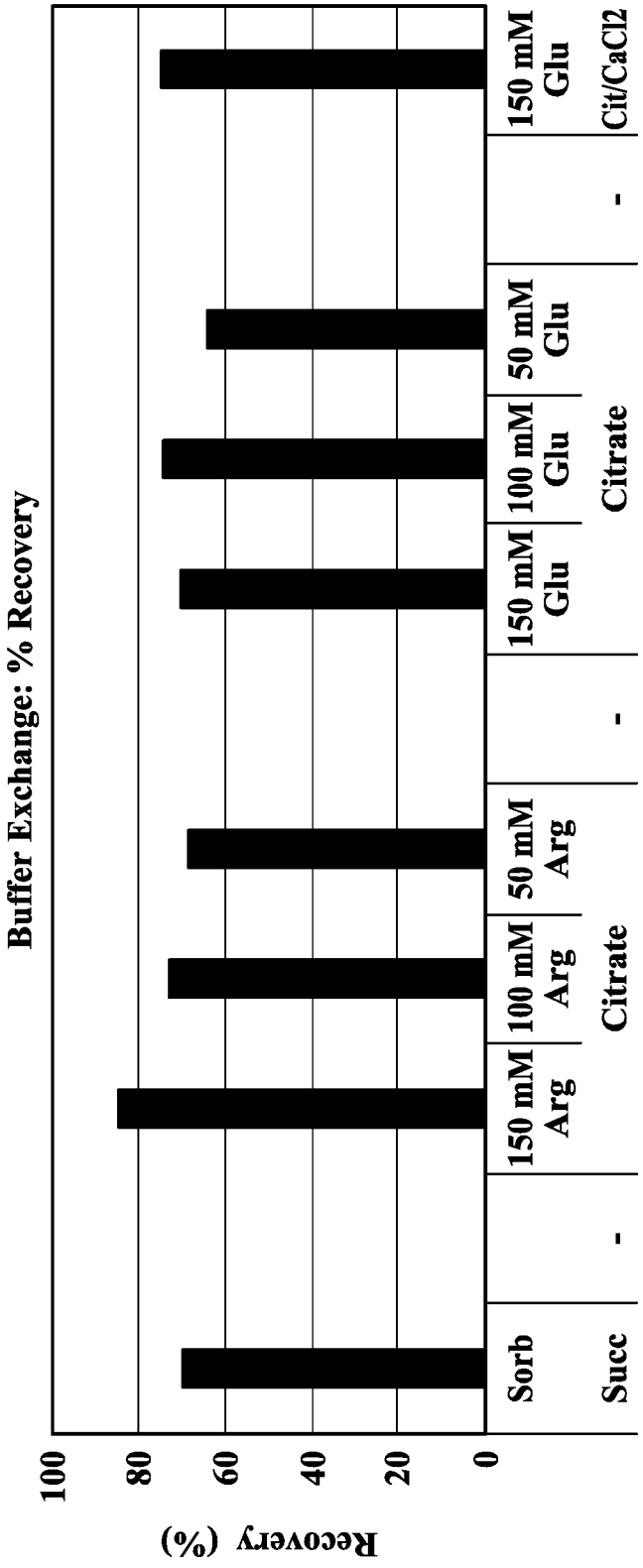

Buffer Exchange: % Recovery
Recovery (%)
100
80
60
40
20
0
Sorb
Succ
-
150 mM Arg
100 mM Arg
50 mM Arg
-
150 mM Glu
100 mM Glu
50 mM Glu
-
150 mM Glu
Citrate
Citrate
Cit/CaCl2

FIG.4

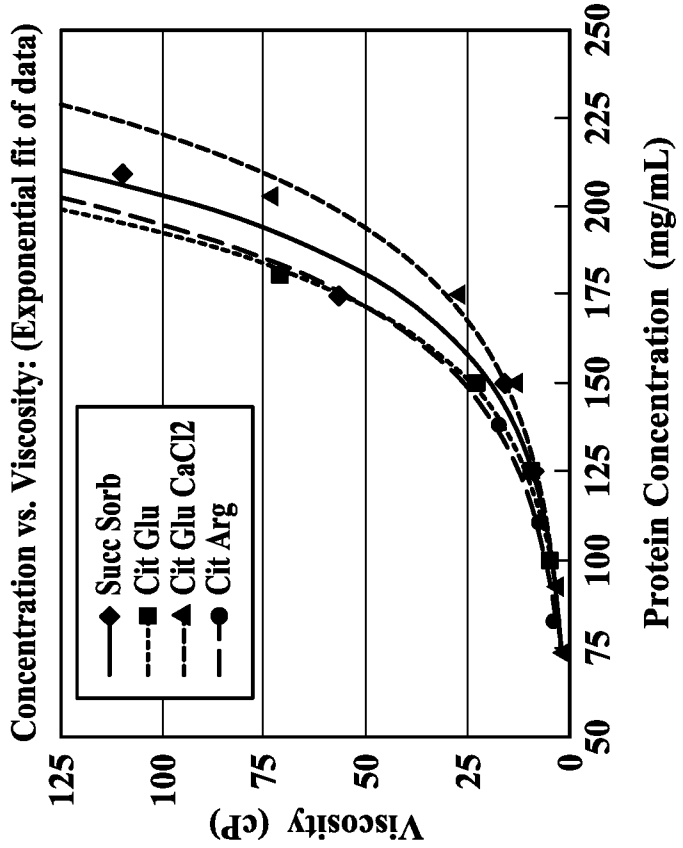

Concentration vs. Viscosity: (Exponential fit of data)
Succ Sorb
Cit Glu
Cit Glu CaCl2
Cit Arg
Viscosity (cP)
125
100
75
50
25
0
50
75
100
125
150
175
200
225
250
Protein Concentration (mg/mL)

FIG.5

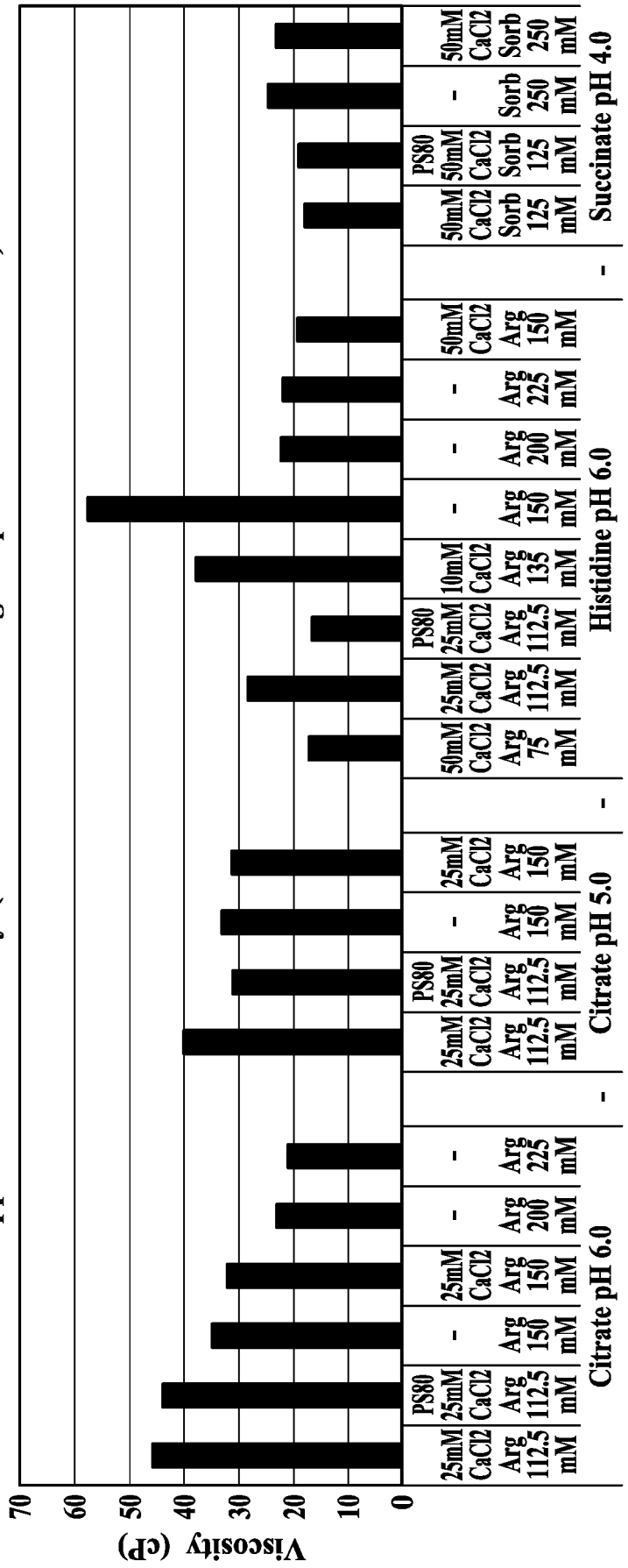

Approximated Viscosity (Normalized to 170 mg/mL protein concentration)
Viscosity (cP)
0
10
20
30
40
50
60
70
25mM CaCl2 Arg 112.5 mM
PS80 25mM CaCl2 Arg 112.5 mM
- Arg 150 mM
25mM CaCl2 Arg 150 mM
- Arg 200 mM
- Arg 225 mM
Citrate pH 6.0
-
25mM CaCl2 Arg 112.5 mM
PS80 25mM CaCl2 Arg 112.5 mM
- Arg 150 mM
25mM CaCl2 Arg 150 mM
Citrate pH 5.0
-
50mM CaCl2 Arg 75 mM
25mM CaCl2 Arg 112.5 mM
PS80 25mM CaCl2 Arg 112.5 mM
10mM CaCl2 Arg 135 mM
- Arg 150 mM
- Arg 200 mM
- Arg 225 mM
50mM CaCl2 Arg 150 mM
Histidine pH 6.0
-
50mM CaCl2 Sorb 125 mM
PS80 50mM CaCl2 Sorb 125 mM
- Sorb 250 mM
50mM CaCl2 Sorb 250 mM
Succinate pH 4.0

FIG. 6

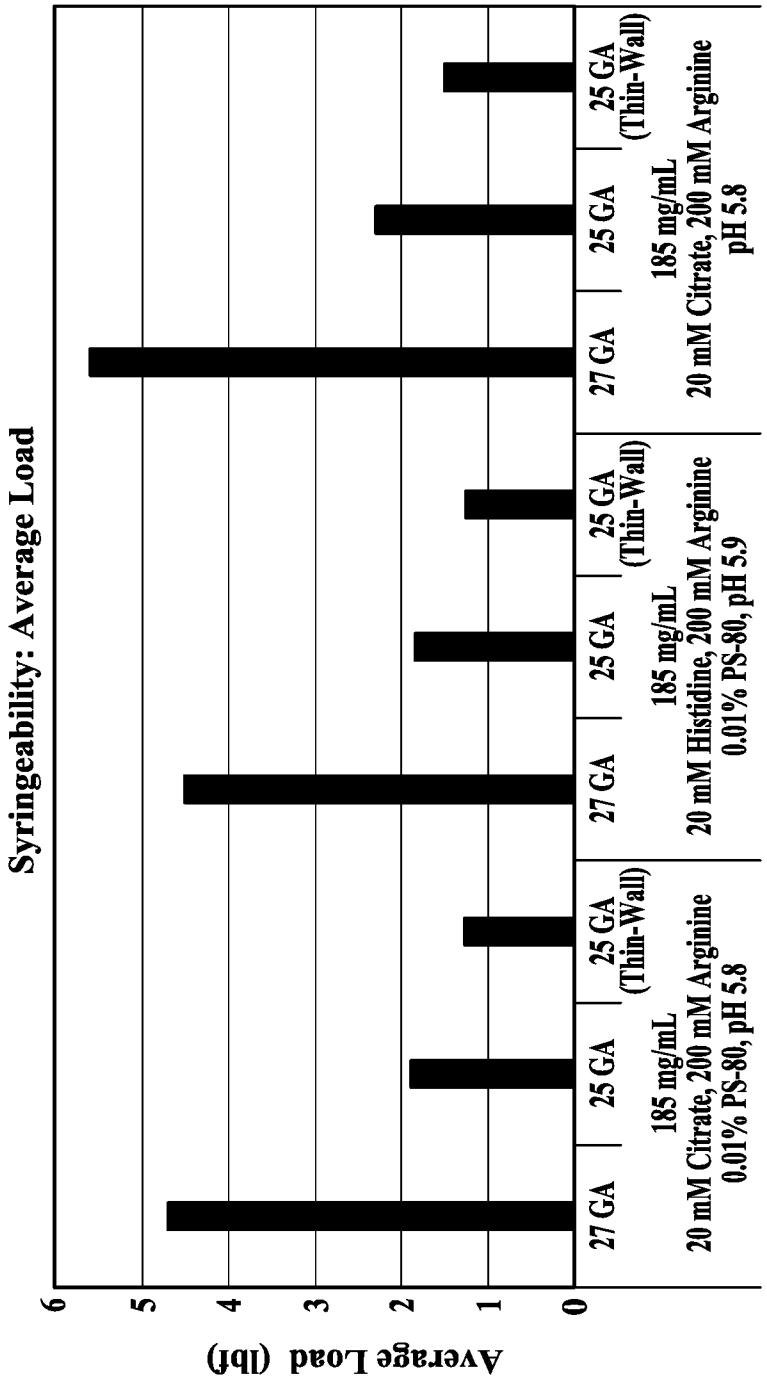

Syringeability: Average Load
Average Load (lbf)
0
1
2
3
4
5
6
27 GA
25 GA
25 GA (Thin-Wall)
185 mg/mL
20 mM Citrate, 200 mM Arginine
0.01% PS-80, pH 5.8
185 mg/mL
20 mM Histidine, 200 mM Arginine
0.01% PS-80, pH 5.9
185 mg/mL
20 mM Citrate, 200 mM Arginine
pH 5.8

FIG. 7A

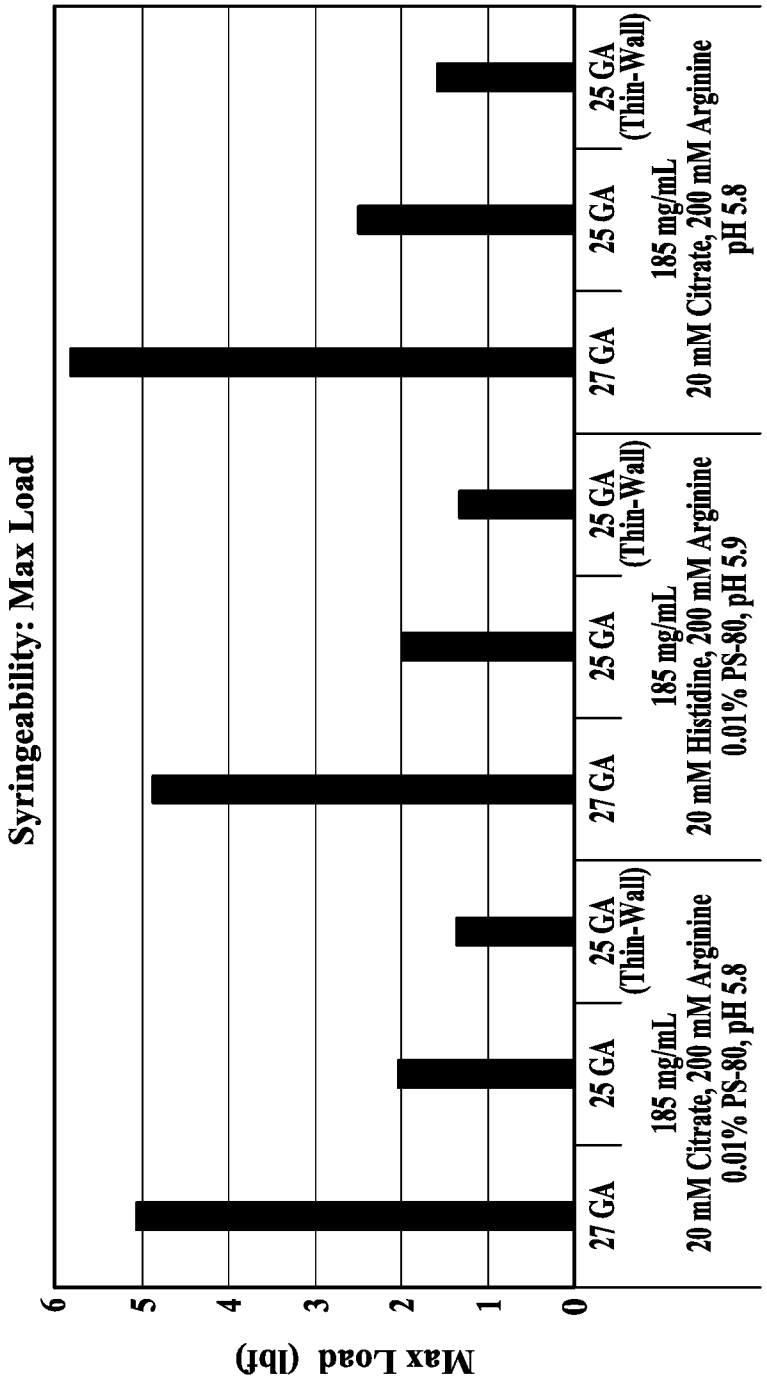

Syringeability: Max Load
Max Load (lbf)
0
1
2
3
4
5
6
27 GA
25 GA
25 GA (Thin-Wall)
185 mg/mL
20 mM Citrate, 200 mM Arginine
0.01% PS-80, pH 5.8
185 mg/mL
20 mM Histidine, 200 mM Arginine
0.01% PS-80, pH 5.9
185 mg/mL
20 mM Citrate, 200 mM Arginine
pH 5.8

FIG. 7B