Fig. 1

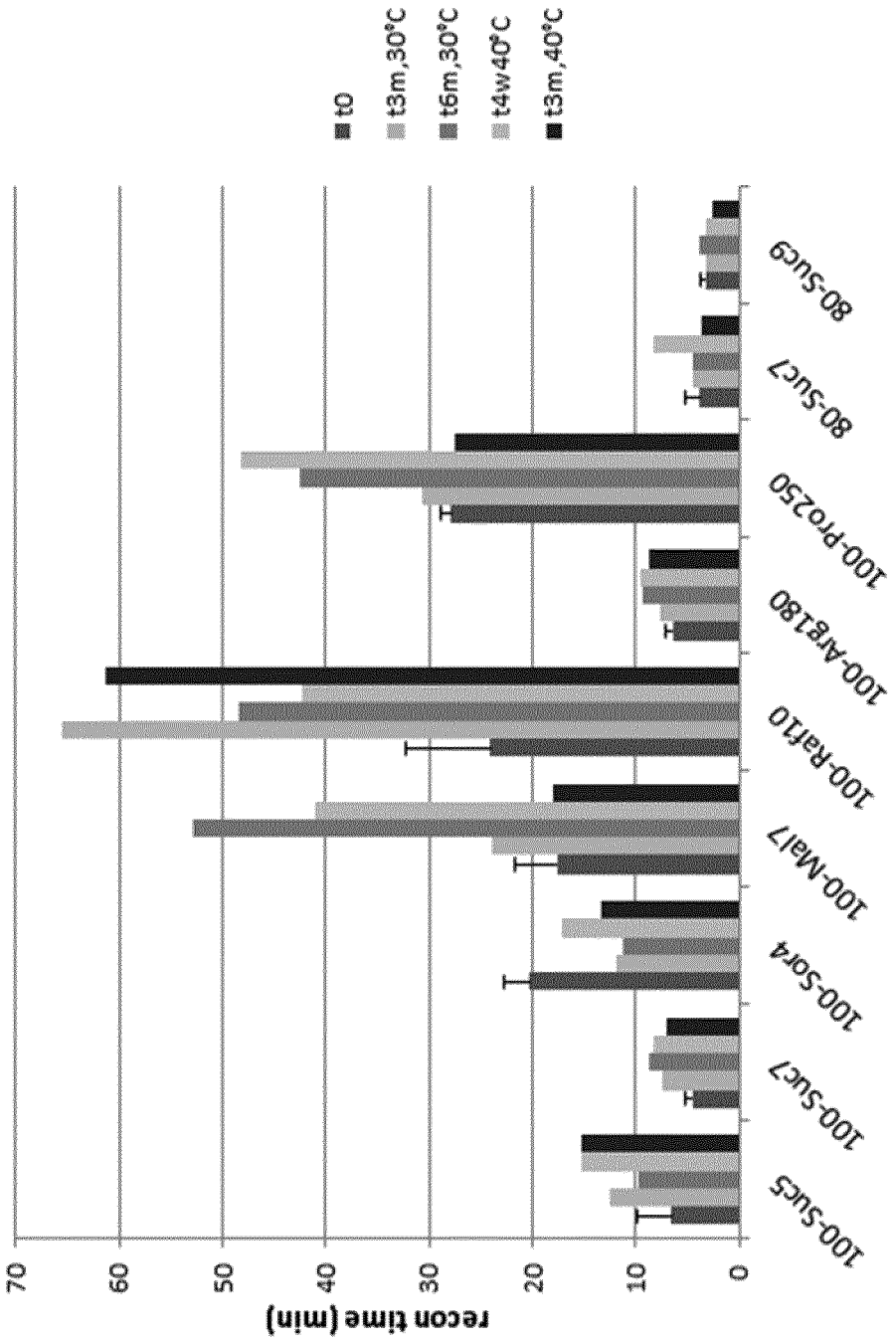

t0
t3m,30°C
t6m,30°C
t4w40°C
t3m,40°C
recon time (min)
0
10
20
30
40
50
60
70
100-Suc5
100-Suc7
100-Sor4
100-Mal7
100-Raf10
100-Arg180
100-Pro250
80-Suc7
80-Suc9

Fig. 2

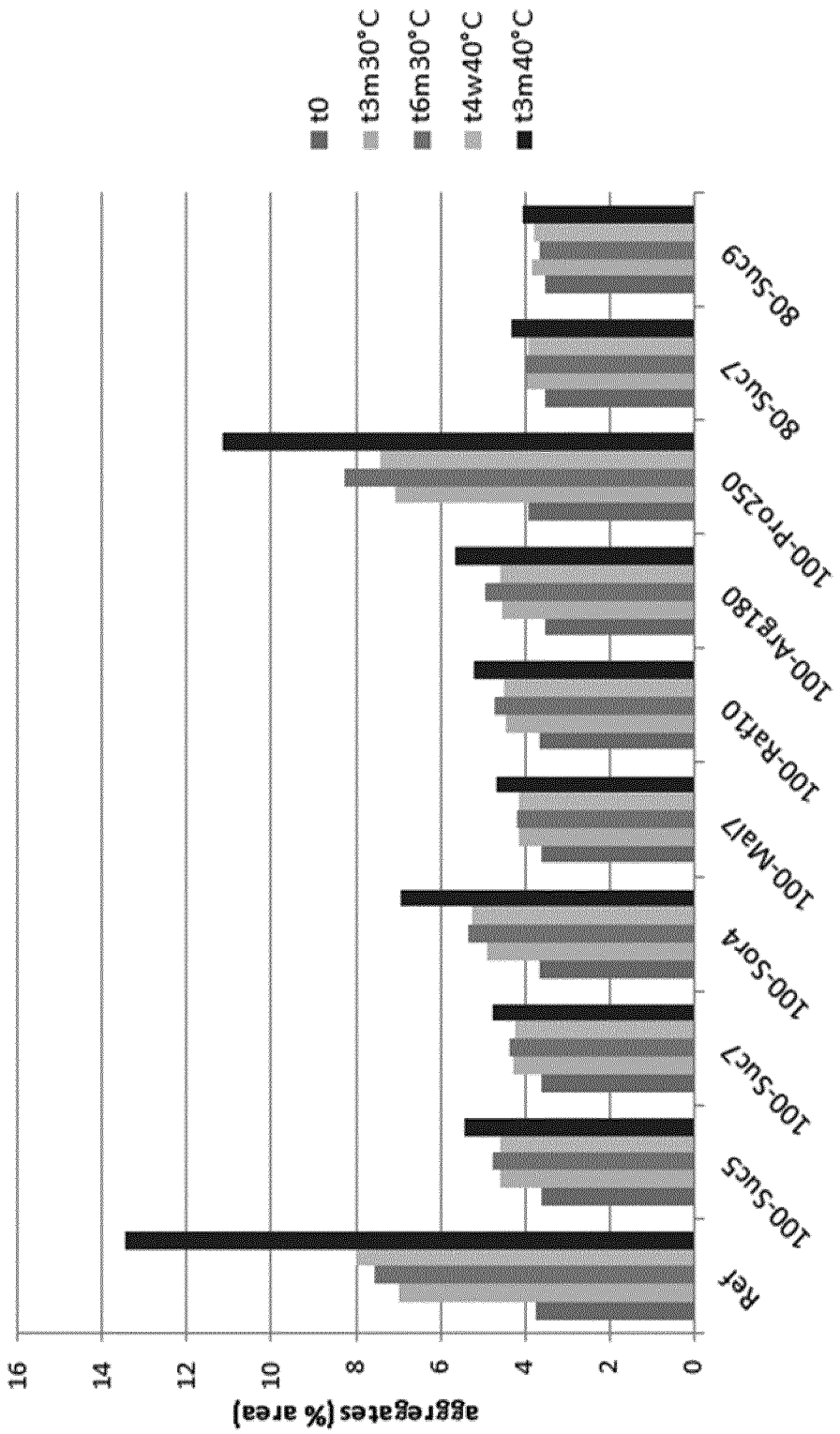

t0
t3m30°C
t6m30°C
t4w40°C
t3m40°C
Ref
100-Suc5
100-Suc7
100-Sor4
100-Mal7
100-Raf10
100-Arg180
100-Pro250
80-Suc7
80-Suc9
0
2
4
6
8
10
12
14
16
aggregates (% area)

Fig. 3

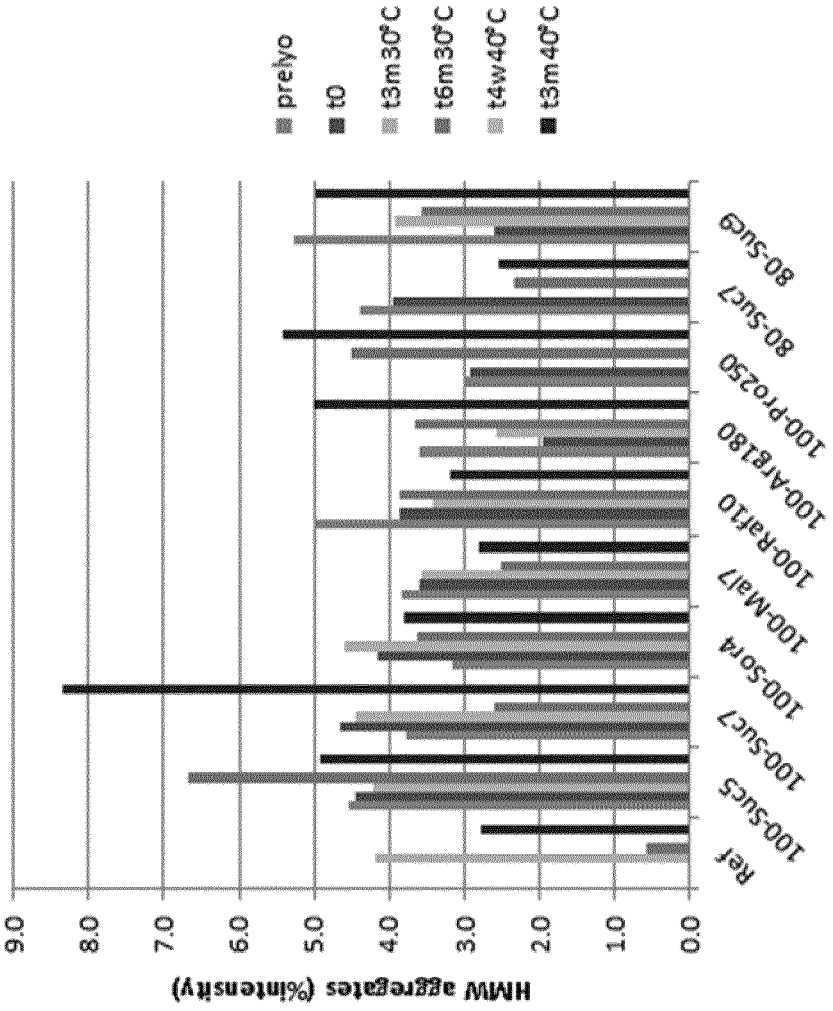

prelyo
t0
t3m30°C
t6m30°C
t4w40°C
t3m40°C
Ref
100-Suc5
100-Suc7
100-Sor4
100-Mal7
100-Raf10
100-Arg180
100-Pro250
80-Suc7
80-Suc9
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
HMW aggregates (%intensity)

Fig. 4

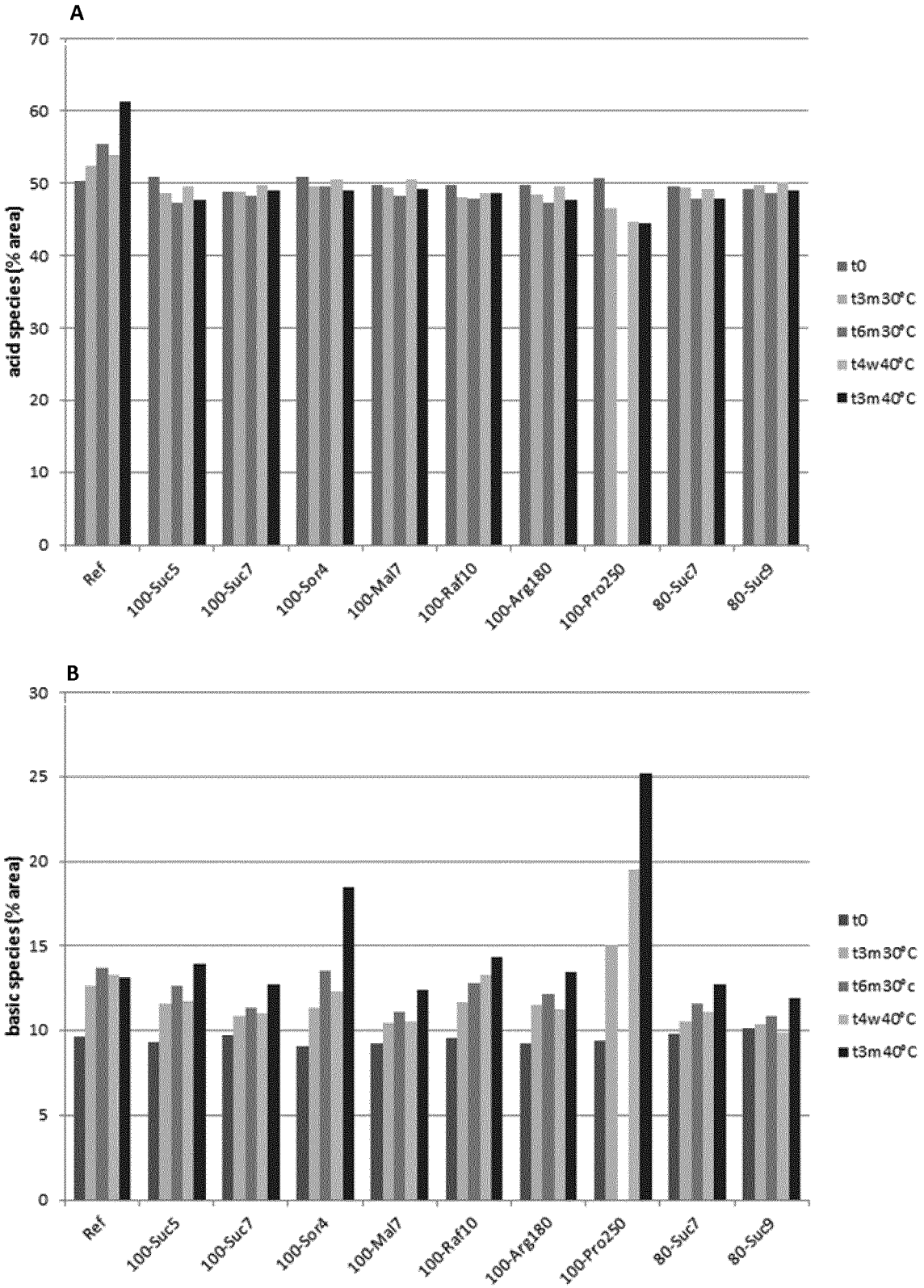

A
acid species (% area)
70
60
50
40
30
20
10
0
Ref
100-Suc5
100-Suc7
100-Sor4
100-Mal7
100-Raf10
100-Arg180
100-Pro250
80-Suc7
80-Suc9
t0
t3m30°C
t6m30°C
t4w40°C
t3m40°C
B
basic species (% area)
30
25
20
15
10
5
0
Ref
100-Suc5
100-Suc7
100-Sor4
100-Mal7
100-Raf10
100-Arg180
100-Pro250
80-Suc7
80-Suc9
t0
t3m30°C
t6m30°c
t4w40°C
t3m40°C

Fig. 5

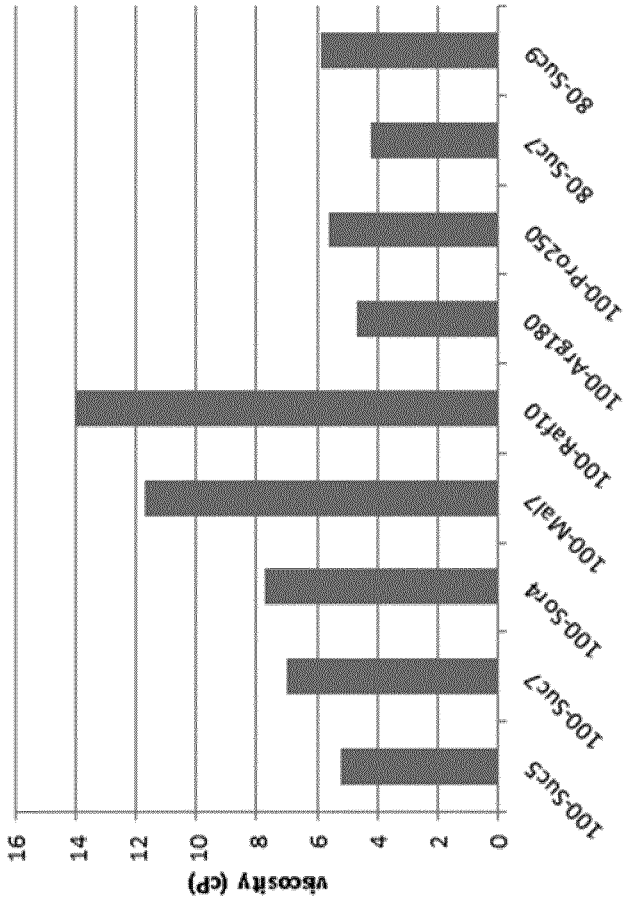

100-Suc5
100-Suc7
100-Sor4
100-Mal7
100-Raf10
100-Ara180
100-Pro250
80-Suc7
80-Suc9
0
2
4
6
8
10
12
14
16
viscosity (cP)

Fig. 6

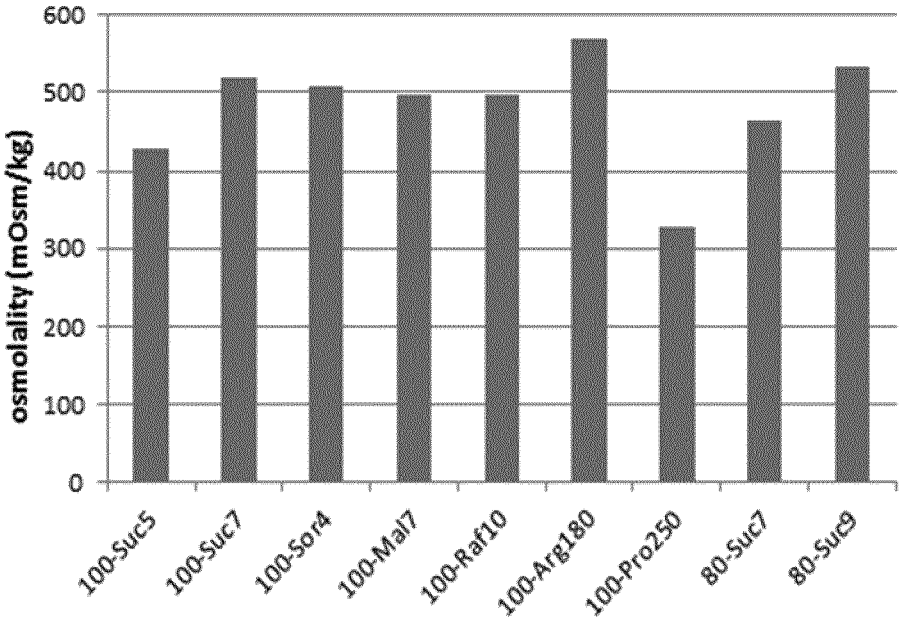

600
500
400
300
200
100
0
osmolality (mOsm/kg)
100-Suc5
100-Suc7
100-Sor4
100-Mal7
100-Raf10
100-Arg180
100-Pro250
80-Suc7
80-Suc9

Fig. 7

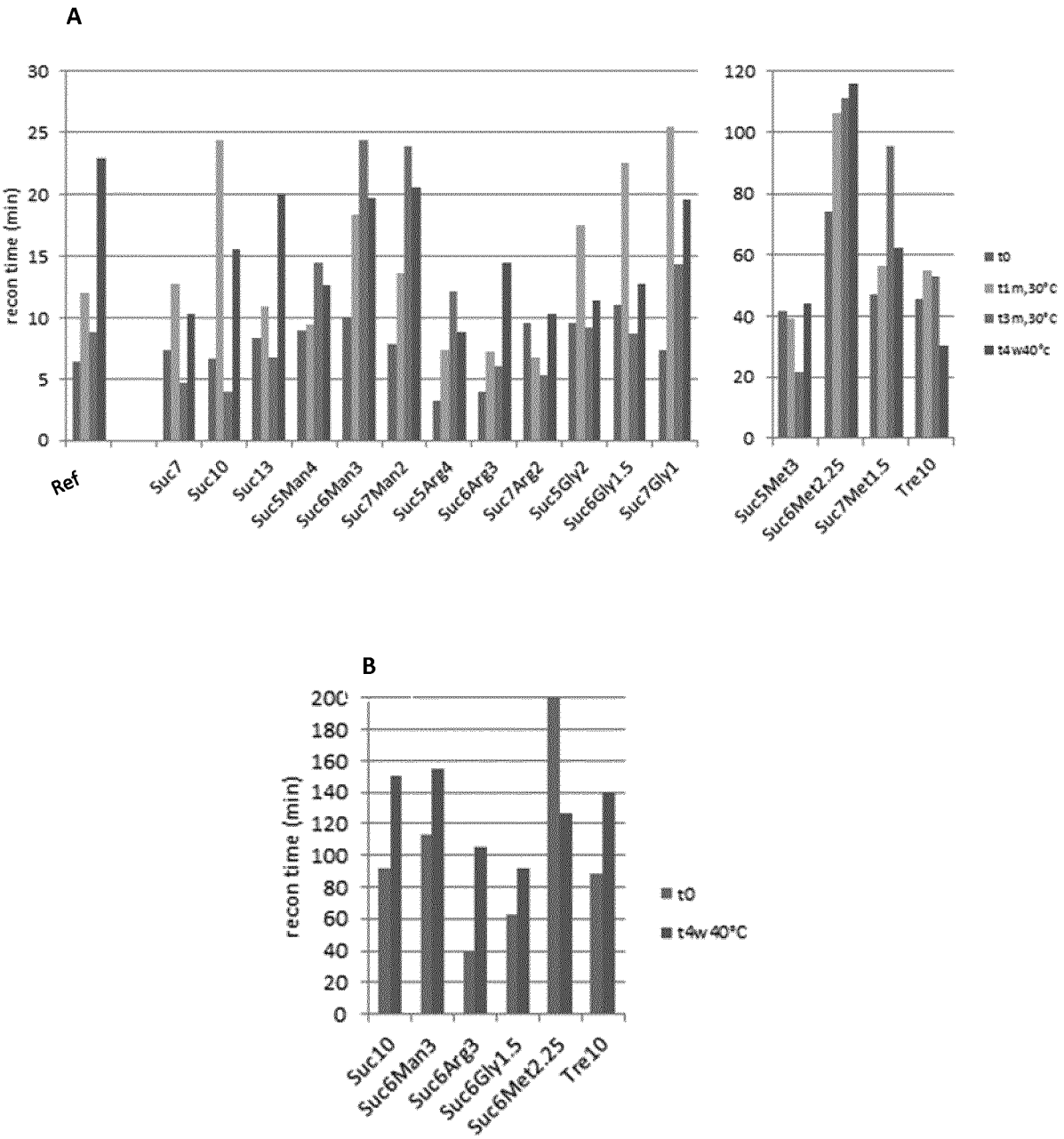

A
recon time (min)
30
25
20
15
10
5
0
120
100
80
60
40
20
0
Ref
Suc7
Suc10
Suc13
Suc5Man4
Suc6Man3
Suc7Man2
Suc5Arg4
Suc6Arg3
Suc7Arg2
Suc5Gly2
Suc6Gly1.5
Suc7Gly1
Suc5Met3
Suc6Met2.25
Suc7Met1.5
Tre10
t0
t1m,30°C
t3m,30°C
t4w40°c
B
recon time (min)
200
180
160
140
120
100
80
60
40
20
0
Suc10
Suc6Man3
Suc6Arg3
Suc6Gly1.5
Suc6Met2.25
Tre10
t0
t4w 40°C

Fig. 8

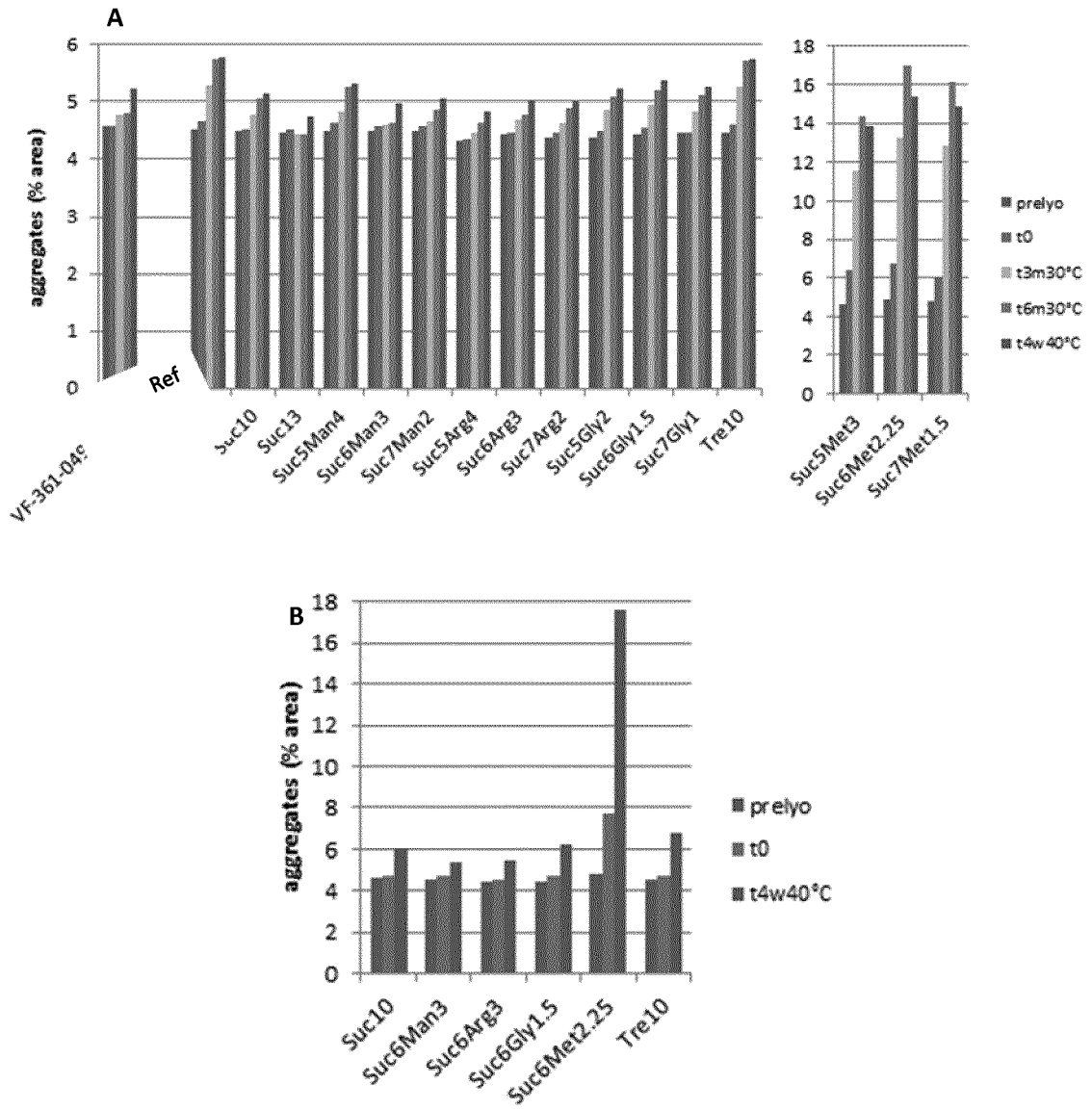

A
aggregates (% area)
Ref
Suc10
Suc13
Suc5Man4
Suc6Man3
Suc7Man2
Suc5Arg4
Suc6Arg3
Suc7Arg2
Suc5Gly2
Suc6Gly1.5
Suc7Gly1
Tre10
Suc5Met3
Suc6Met2.25
Suc7Met1.5
prelyo
t0
t3m30°C
t6m30°C
t4w40°C
B
aggregates (% area)
Suc10
Suc6Man3
Suc6Arg3
Suc6Gly1.5
Suc6Met2.25
Tre10
prelyo
t0
t4w40°C

Fig. 9

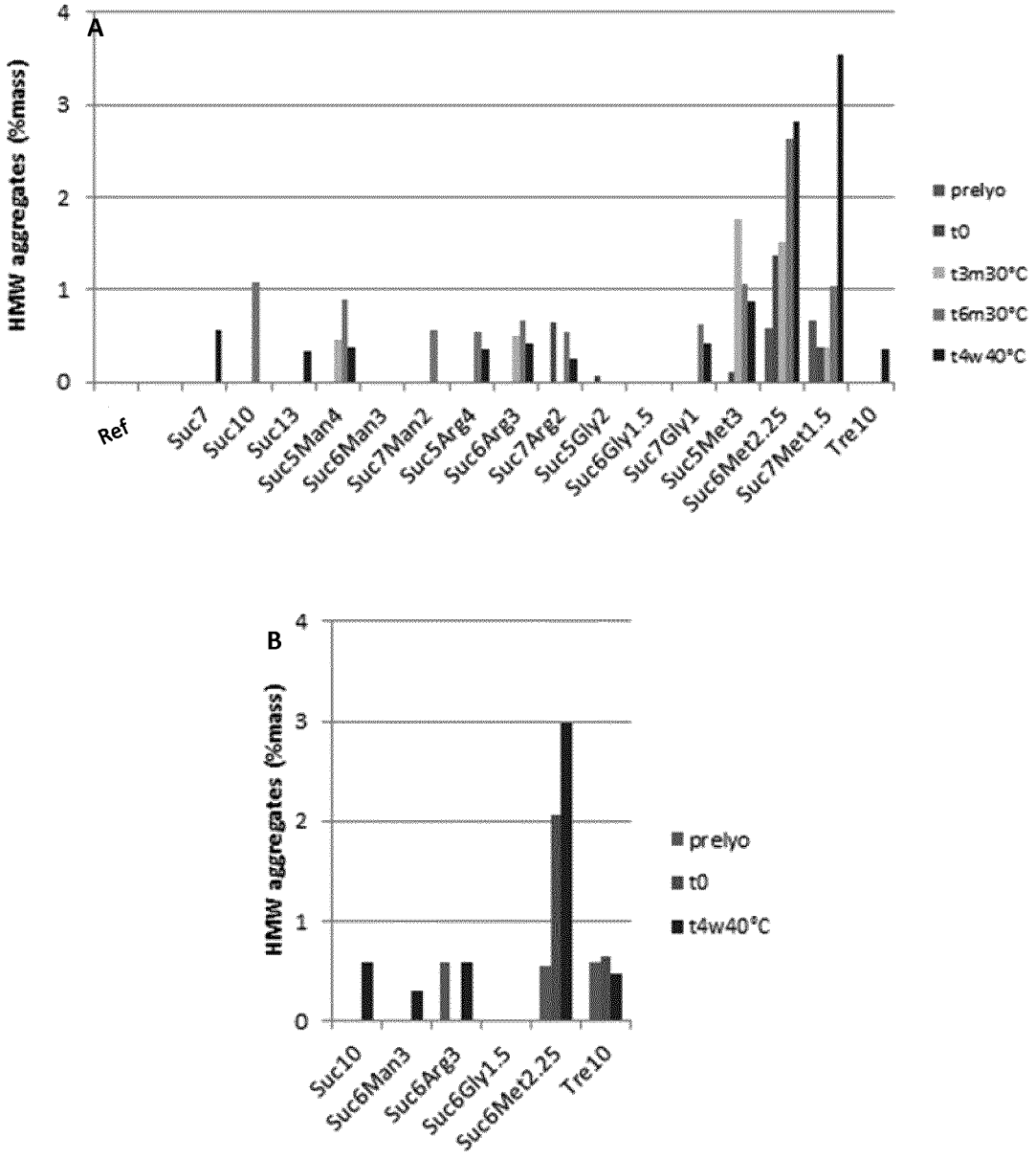

A
HMW aggregates (%mass)
0
1
2
3
4
Ref
Suc7
Suc10
Suc13
Suc5Man4
Suc6Man3
Suc7Man2
Suc5Arg4
Suc6Arg3
Suc7Arg2
Suc5Gly2
Suc6Gly1.5
Suc7Gly1
Suc5Met3
Suc6Met2.25
Suc7Met1.5
Tre10
prelyo
t0
t3m30°C
t6m30°C
t4w40°C
B
HMW aggregates (%mass)
0
1
2
3
4
Suc10
Suc6Man3
Suc6Arg3
Suc6Gly1.5
Suc6Met2.25
Tre10
prelyo
t0
t4w40°C

Fig. 10

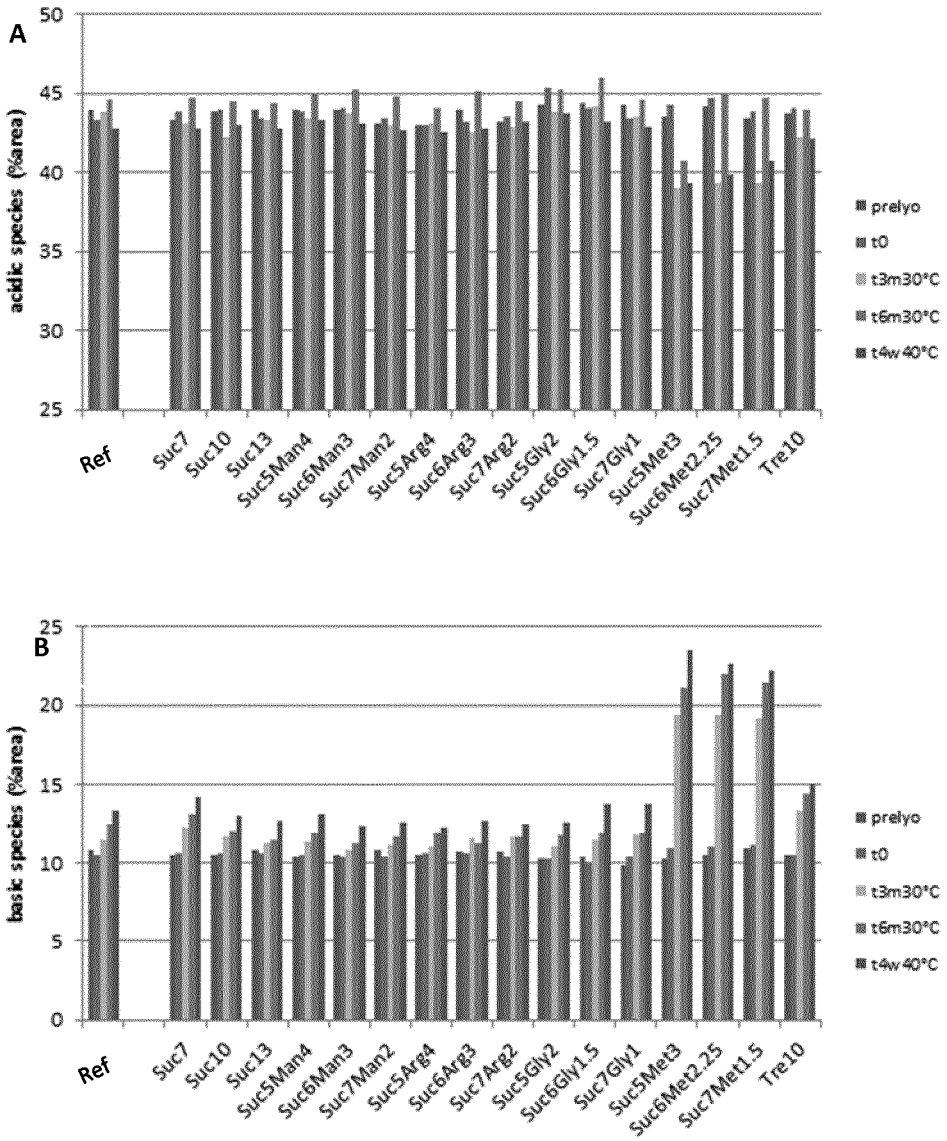

A
acidic species (%area)
50
45
40
35
30
25
Ref
Suc7
Suc10
Suc13
Suc5Man4
Suc6Man3
Suc7Man2
Suc5Arg4
Suc6Arg3
Suc7Arg2
Suc5Gly2
Suc6Gly1.5
Suc7Gly1
Suc5Met3
Suc6Met2.25
Suc7Met1.5
Tre10
prelyo
t0
t3m30°C
t6m30°C
t4w40°C
B
basic species (%area)
25
20
15
10
5
0
Ref
Suc7
Suc10
Suc13
Suc5Man4
Suc6Man3
Suc7Man2
Suc5Arg4
Suc6Arg3
Suc7Arg2
Suc5Gly2
Suc6Gly1.5
Suc7Gly1
Suc5Met3
Suc6Met2.25
Suc7Met1.5
Tre10
prelyo
t0
t3m30°C
t6m30°C
t4w40°C

Fig. 11

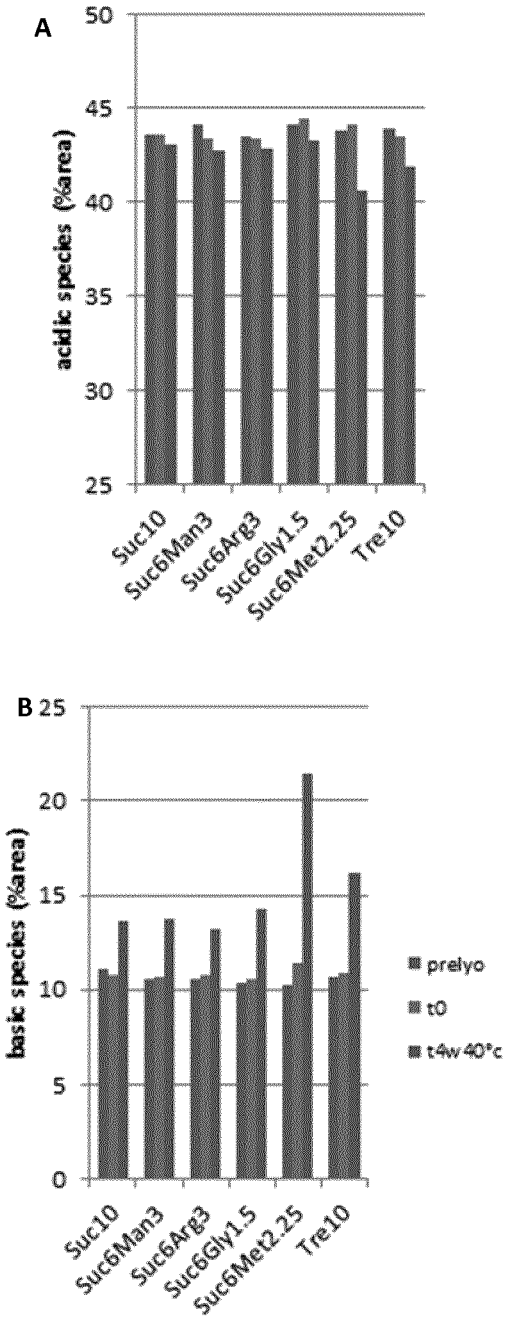

A
acidic species (%area)
50
45
40
35
30
25
Suc10
Suc6Man3
Suc6Arg3
Suc6Gly1.5
Suc6Met2.25
Tre10
B
basic species (%area)
25
20
15
10
5
0
prelyo
t0
t4w 40°c
Suc10
Suc6Man3
Suc6Arg3
Suc6Gly1.5
Suc6Met2.25
Tre10

Fig. 12

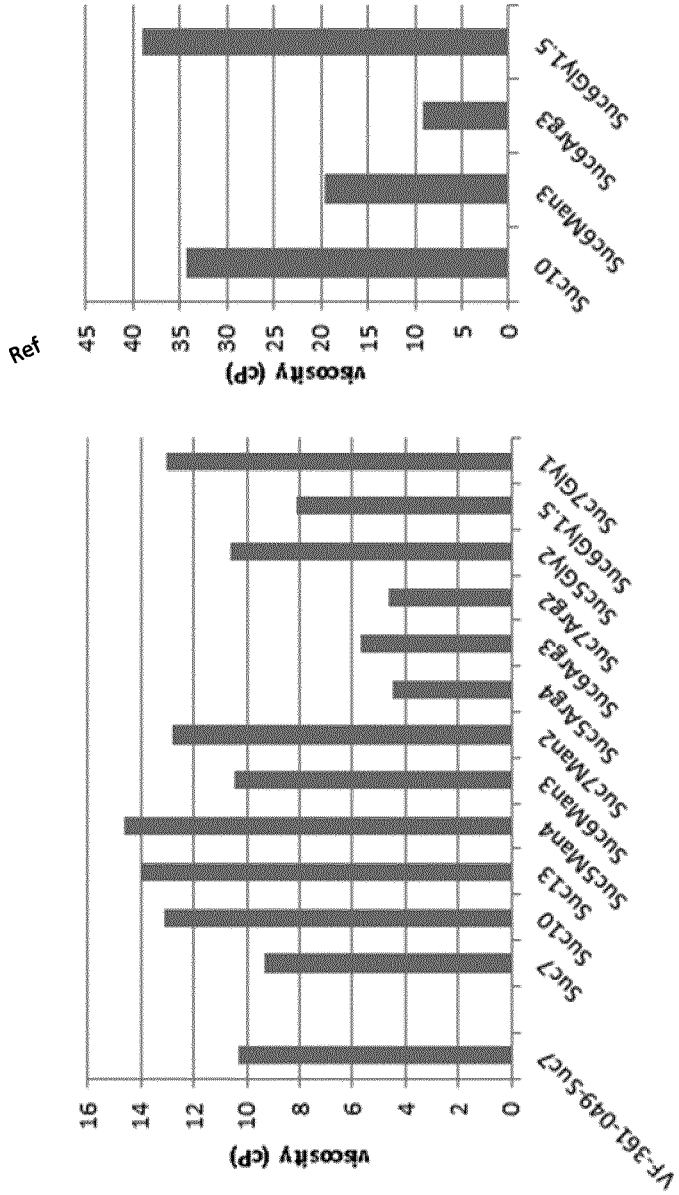
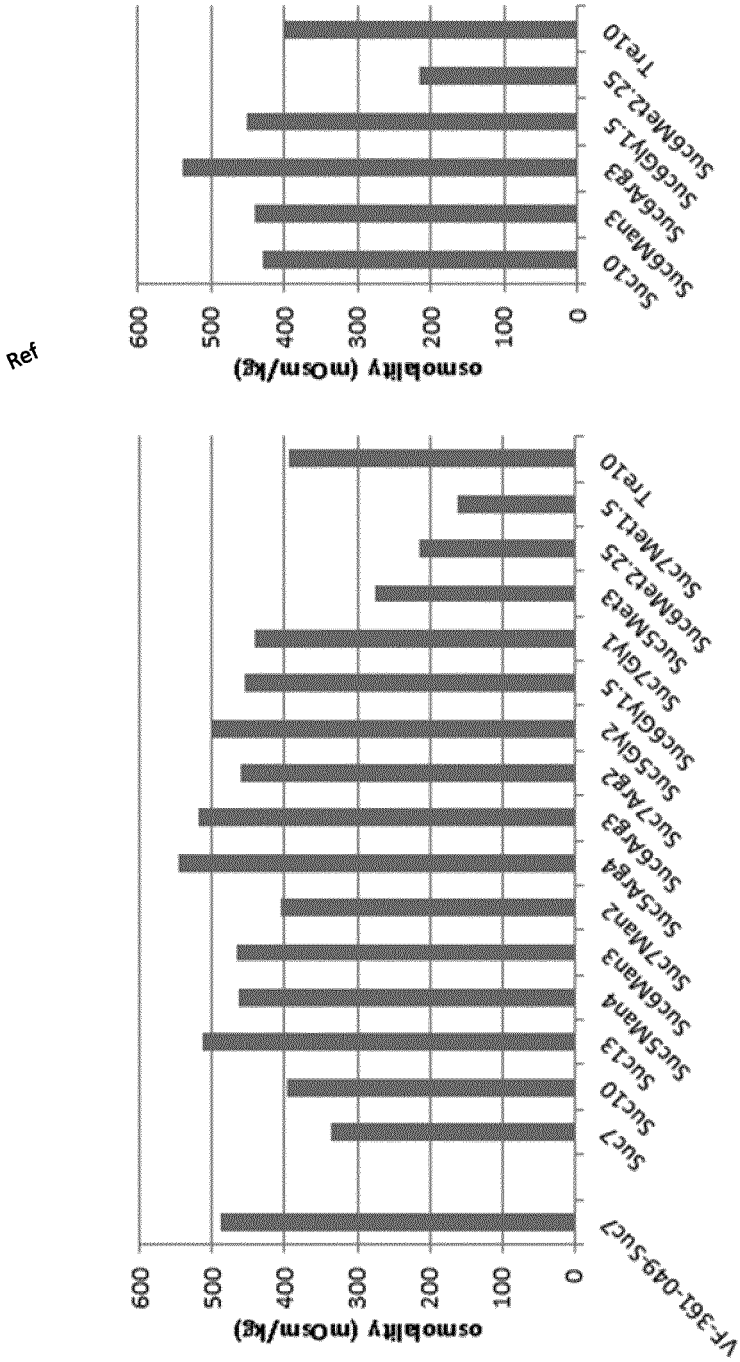

Ref
viscosity (cP)
0
5
10
15
20
25
30
35
40
45
Suc10
Suc6Man3
Suc6Arβ3
Suc6Gly1.5
VF-361-049-Suc7
viscosity (cP)
0
2
4
6
8
10
12
14
16
Suc7
Suc10
Suc13
Suc5Man4
Suc6Man3
Suc7Man2
Suc5Arβ4
Suc6Arβ3
Suc7Arβ2
Suc5Gly2
Suc6Gly1.5
Suc7Gly1

Fig. 13


Ref
osmolality (mOsm/kg)
0
100
200
300
400
500
600
Suc10
Suc6Man3
Suc6Arβ3
Suc6Gly1.5
Suc6Met2.25
Tre10
VF-361-049-Suc7
Suc7
Suc10
Suc13
Suc5Man4
Suc6Man3
Suc7Man2
Suc5Arβ4
Suc6Arβ3
Suc7Arβ2
Suc5Gly2
Suc6Gly1.5
Suc7Gly1
Suc5Met3
Suc6Met2.25
Suc7Met1.5
Tre10