FIG 1A

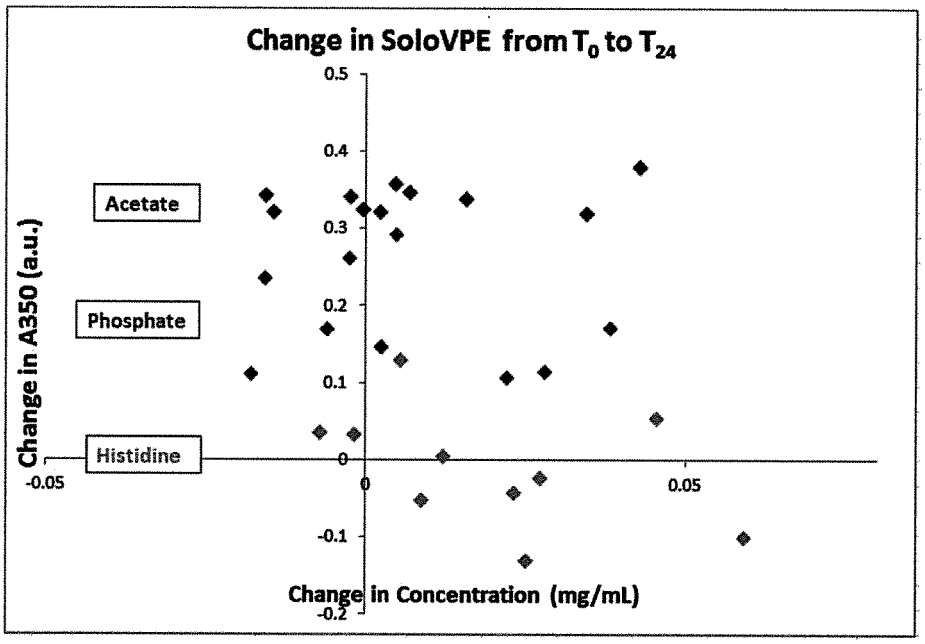

Change in SoloVPE from T_0 to T_{24}
Change in A350 (a.u.)
Acetate
Phosphate
Histidine
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.05
0
0.05
Change in Concentration (mg/mL)

FIG 1B

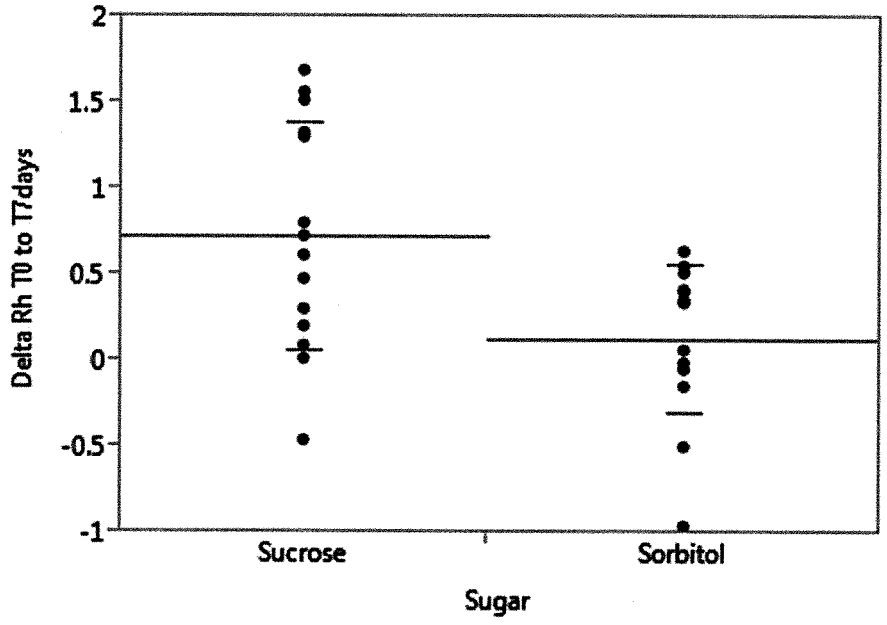

Delta Rh T0 to T7days
2
1.5
1
0.5
0
-0.5
-1
Sucrose
Sorbitol
Sugar

FIG. 2B

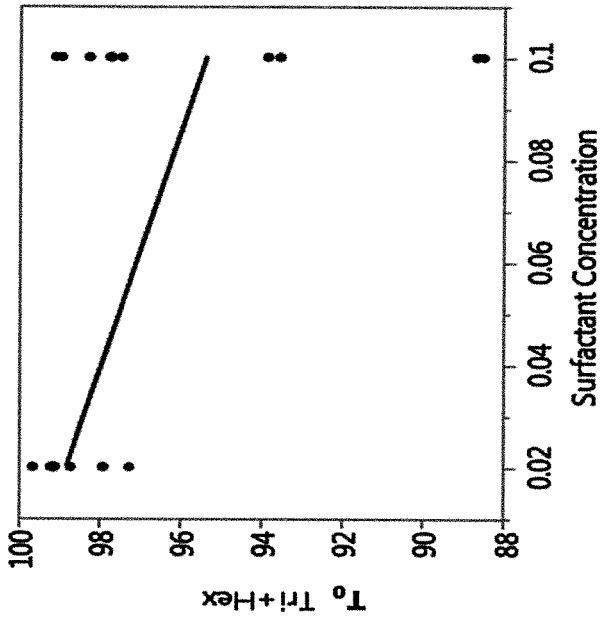

100
98
96
94
92
90
88
T_o Tri+Hex
0.02
0.04
0.06
0.08
0.1
Surfactant Concentration

FIG. 2A

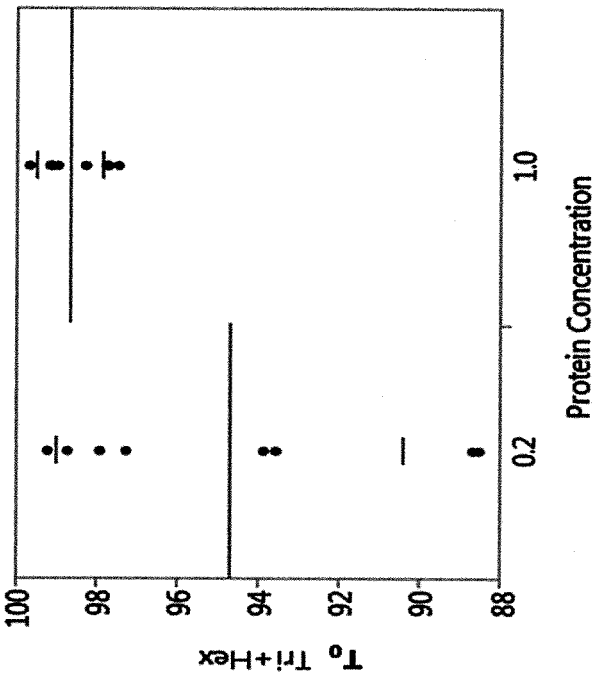

100
98
96
94
92
90
88
T_o Tri+Hex
0.2
1.0
Protein Concentration

FIG 2C

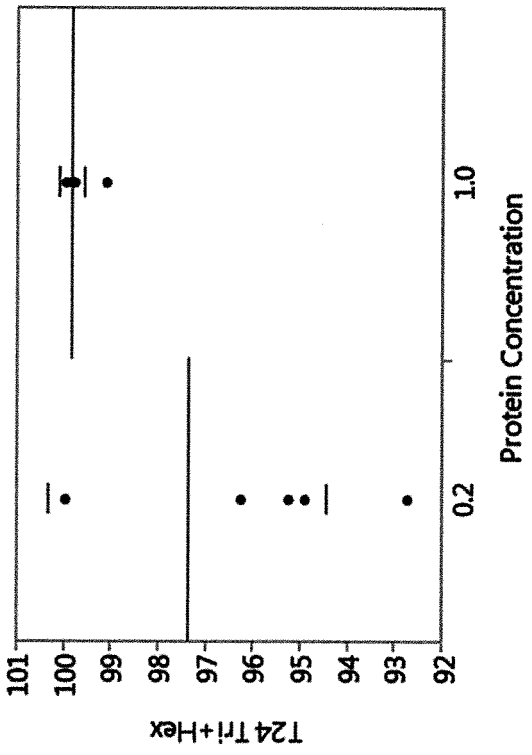

T24 Tri+Hex
101
100
99
98
97
96
95
94
93
92
0.2
1.0
Protein Concentration

FIG 2D

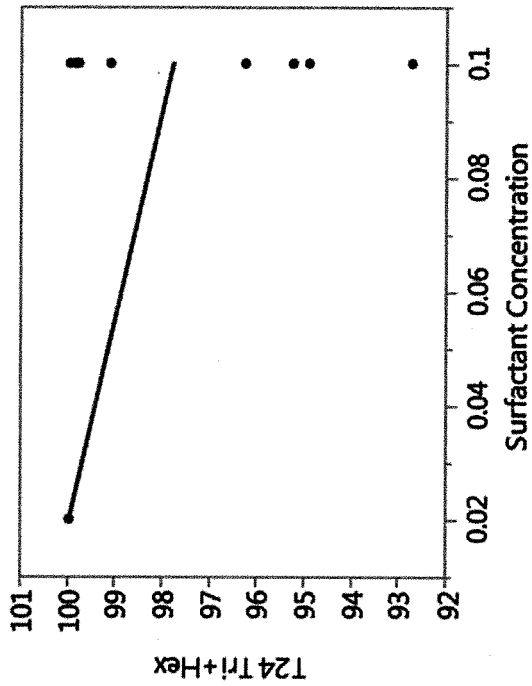

T24 Tri+Hex
101
100
99
98
97
96
95
94
93
92
0.02
0.04
0.06
0.08
0.1
Surfactant Concentration

FIG 2E

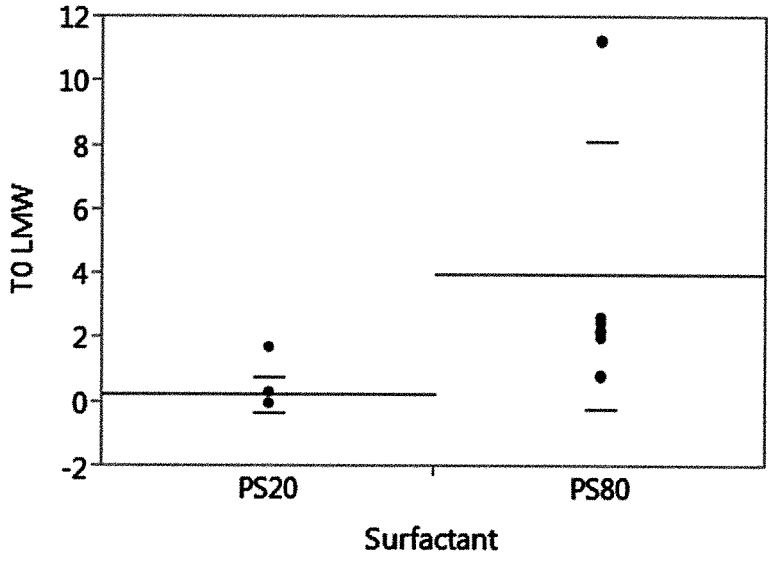

12
10
8
6
4
2
0
-2
T0 LMW
PS20
PS80
Surfactant

FIG 2F

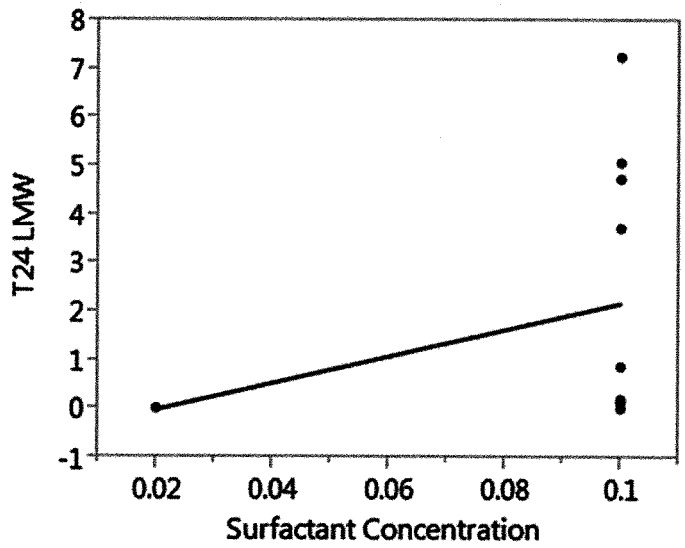

8
7
6
5
4
3
2
1
0
-1
T24 LMW
0.02
0.04
0.06
0.08
0.1
Surfactant Concentration

FIG 3A

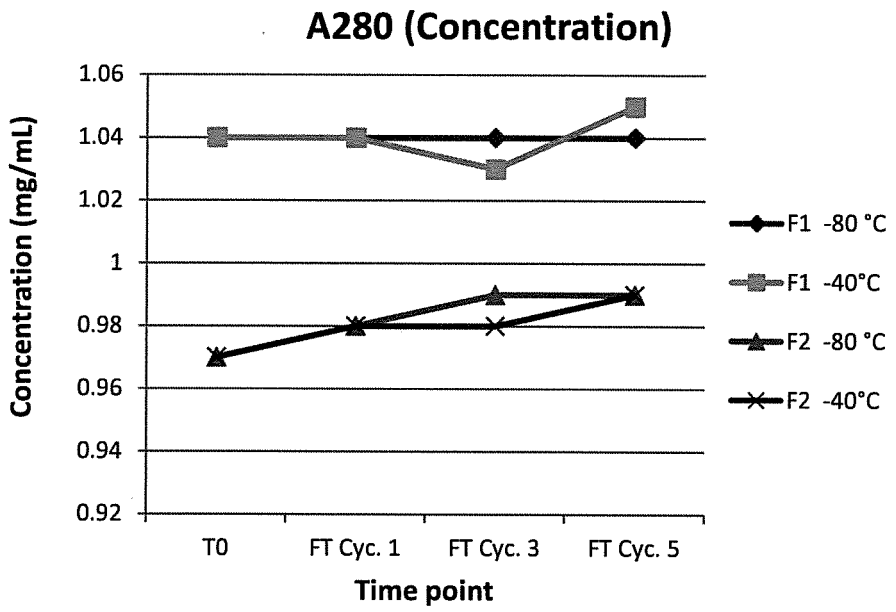

A280 (Concentration)
Concentration (mg/mL)
1.06
1.04
1.02
1
0.98
0.96
0.94
0.92
T0
FT Cyc. 1
FT Cyc. 3
FT Cyc. 5
Time point
F1 -80 °C
F1 -40°C
F2 -80 °C
F2 -40°C

FIG 3B

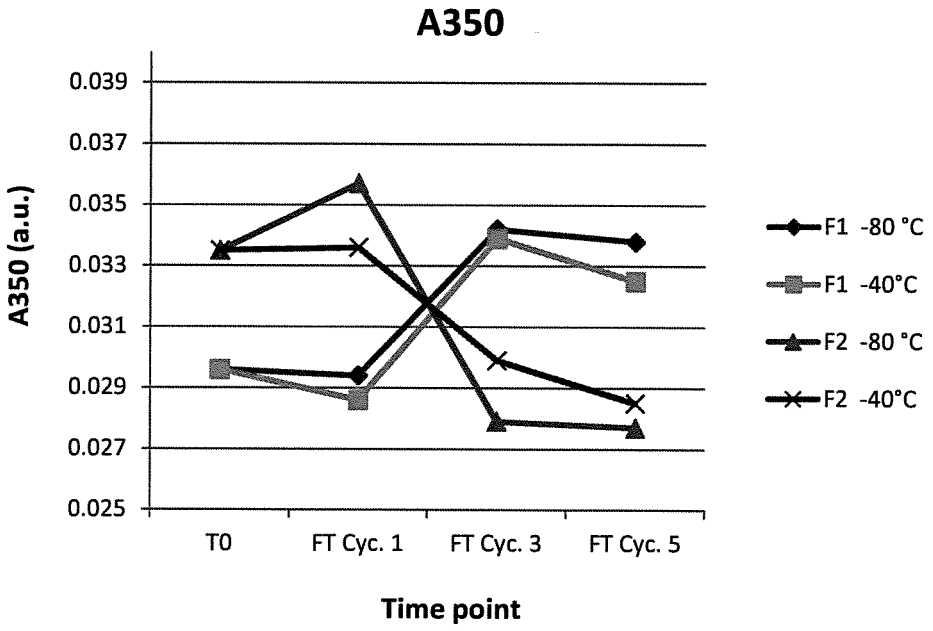

A350
A350 (a.u.)
0.039
0.037
0.035
0.033
0.031
0.029
0.027
0.025
T0
FT Cyc. 1
FT Cyc. 3
FT Cyc. 5
Time point
F1 -80 °C
F1 -40°C
F2 -80 °C
F2 -40°C

FIG 4A

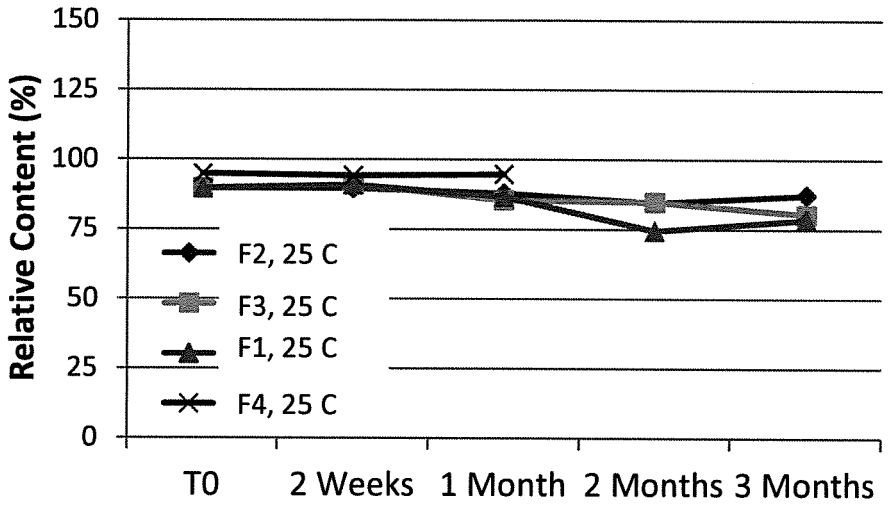

150
125
100
75
50
25
0
Relative Content (%)
F2, 25 C
F3, 25 C
F1, 25 C
F4, 25 C
T0
2 Weeks
1 Month
2 Months
3 Months

FIG 4B

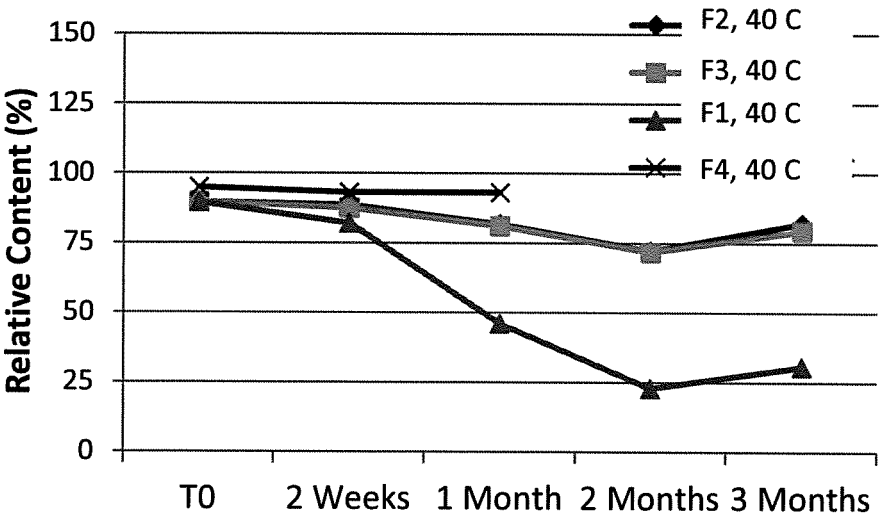

150
125
100
75
50
25
0
Relative Content (%)
F2, 40 C
F3, 40 C
F1, 40 C
F4, 40 C
T0
2 Weeks
1 Month
2 Months
3 Months

FIG 4C

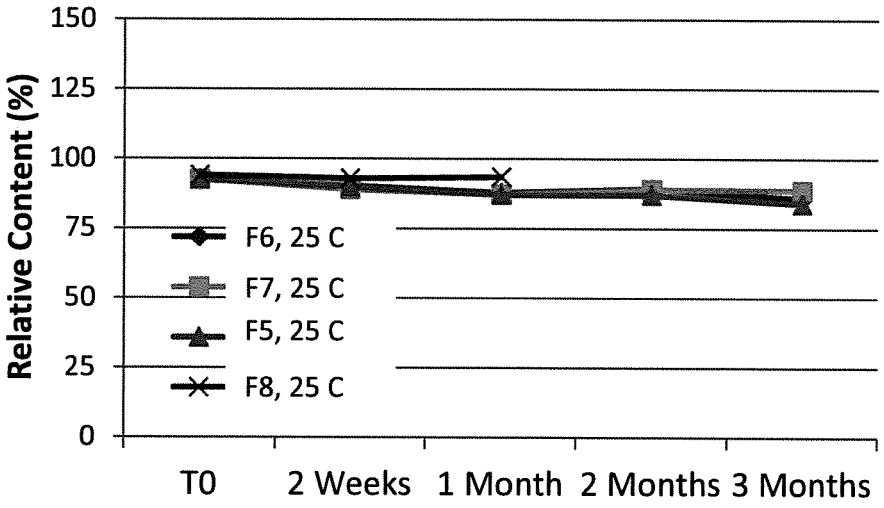
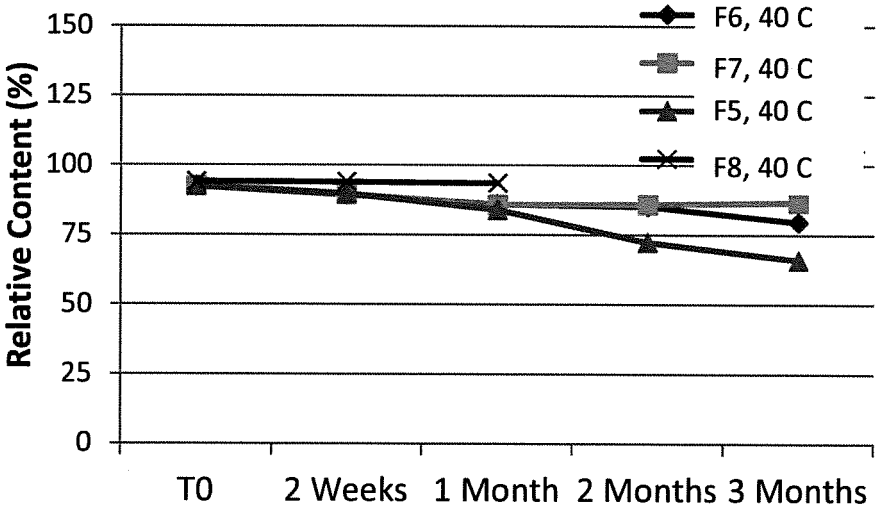

150
125
100
75
50
25
0
Relative Content (%)
F6, 25 C
F7, 25 C
F5, 25 C
F8, 25 C
T0
2 Weeks
1 Month
2 Months
3 Months

FIG 4D


150
125
100
75
50
25
0
Relative Content (%)
F6, 40 C
F7, 40 C
F5, 40 C
F8, 40 C
T0
2 Weeks
1 Month
2 Months
3 Months