FIG. 1A

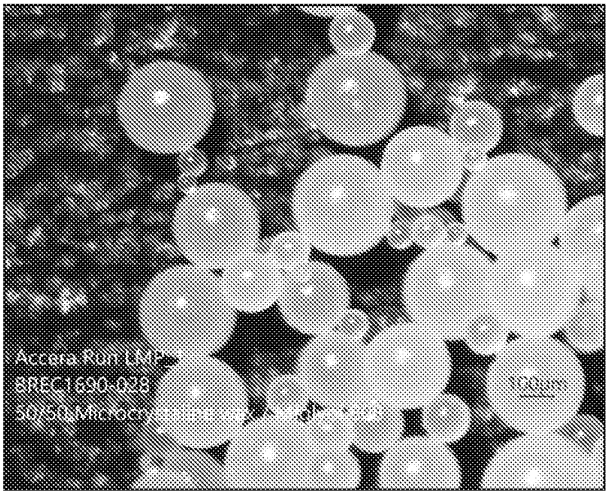

Accera Run LMP
BREC1690-028
100nm

FIG. 1B

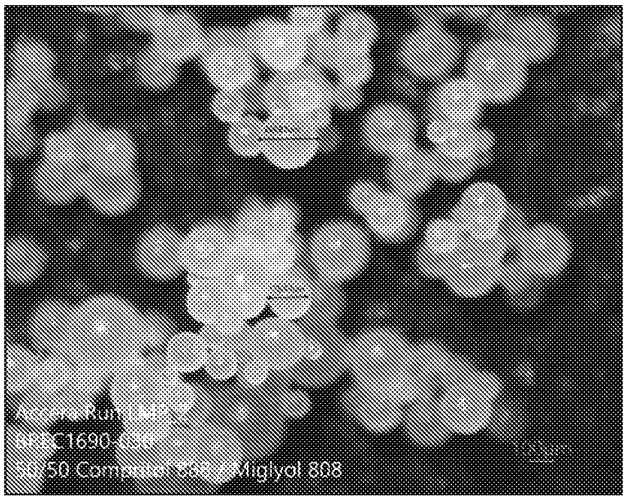

50/50 Commercial 650 / Miglyol 808

FIG. 1C

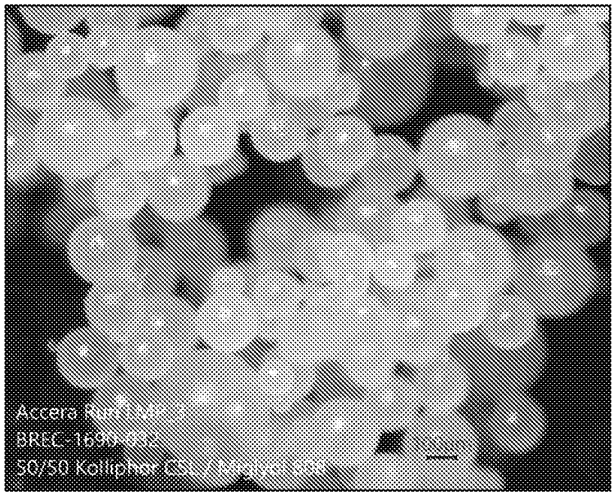
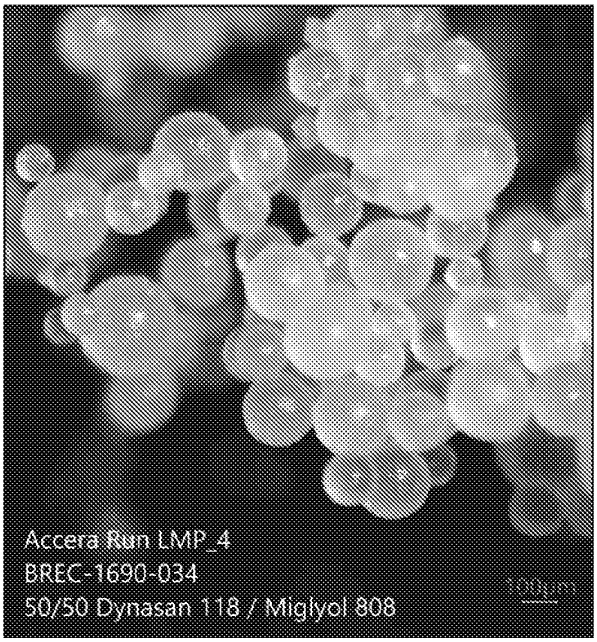
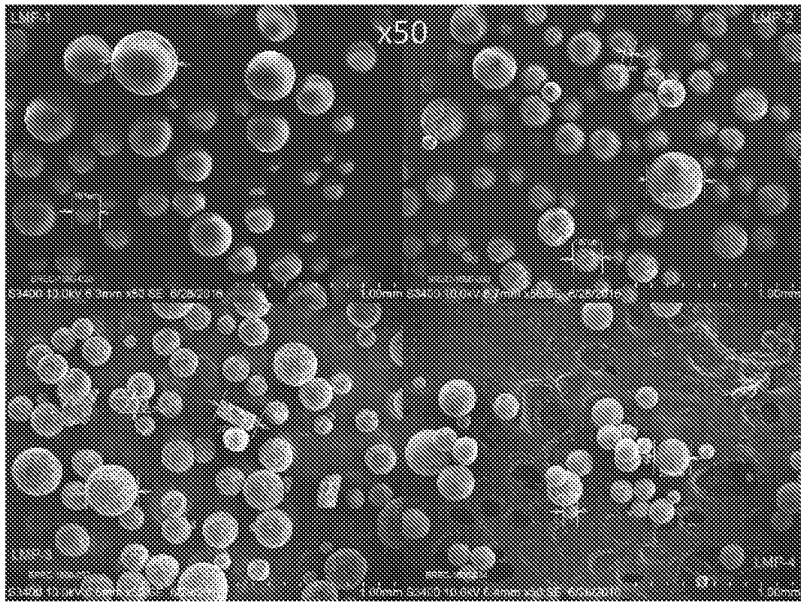

Accera Run LMP_3
BREC-1690-033
50/50 Kolliphor CSL / Miglyol 812

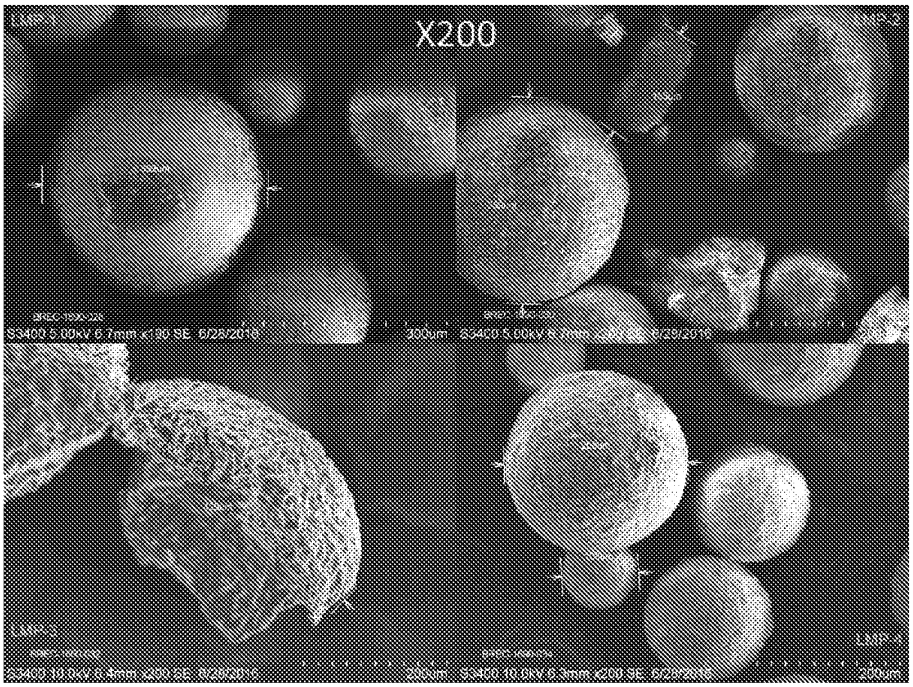
FIG. 1D


Accera Run LMP_4
BREC-1690-034
50/50 Dynasan 118 / Miglyol 808

FIGs. 2A-D.




FIGs. 3A-D



FIGs. 4A-D

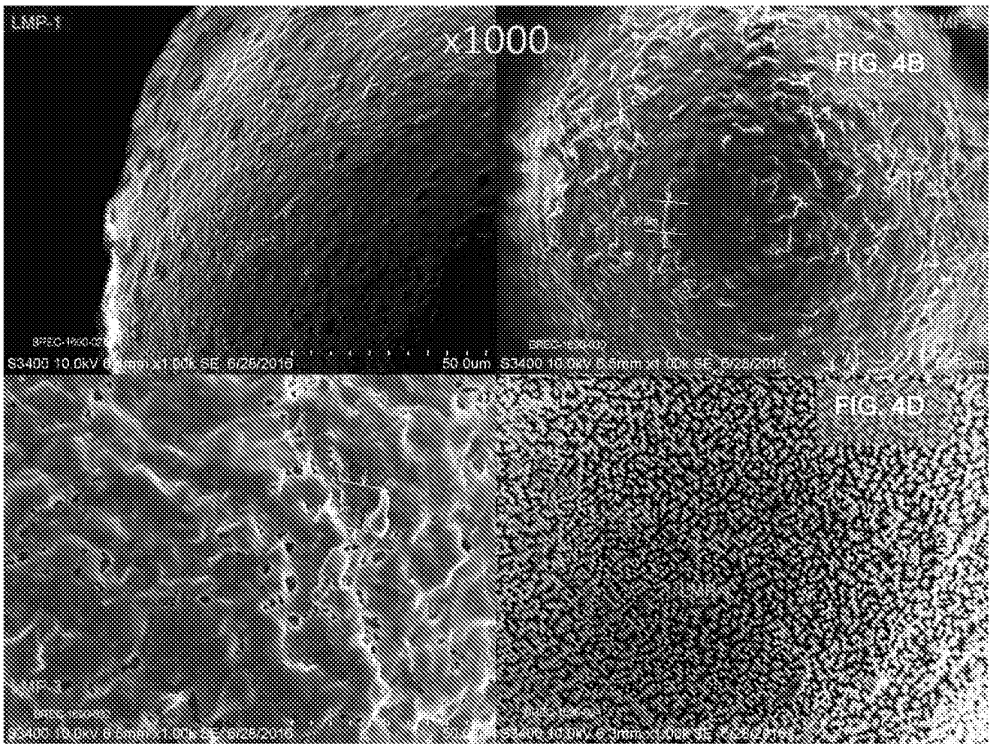


FIG. 5A

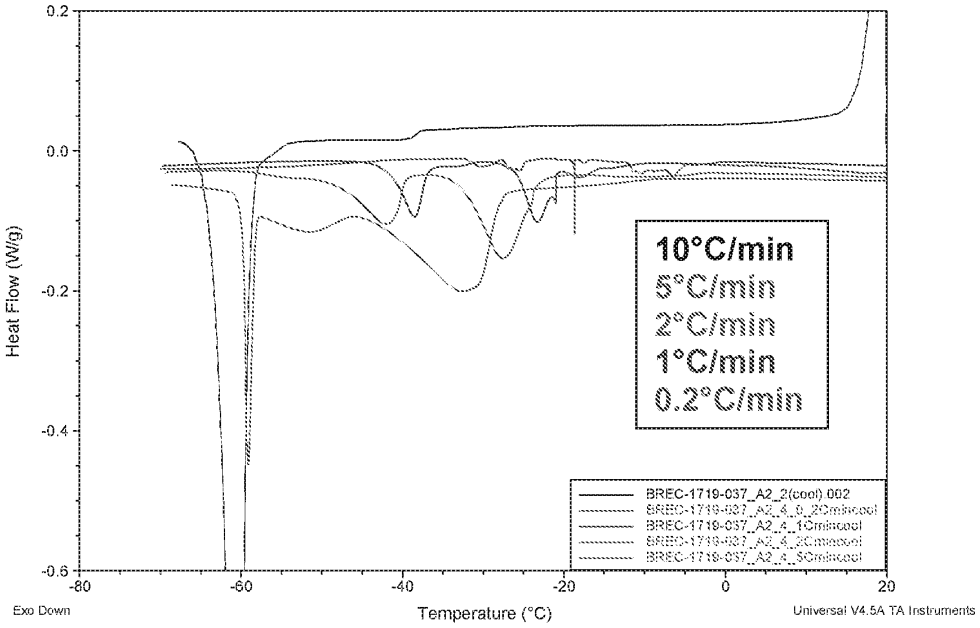

0.2
0.0
-0.2
-0.4
-0.6
Heat Flow (W/g)
-80
-60
-40
-20
0
20
Temperature (°C)
Exo Down
Universal V4.5A TA Instruments
10°C/min
5°C/min
2°C/min
1°C/min
0.2°C/min
BREC-1719-037_A2_2(cool) 002
BREC-1719-037_A2_4_1Cmincool
BREC-1719-037_A2_4_5Cmincool

FIG. 5B

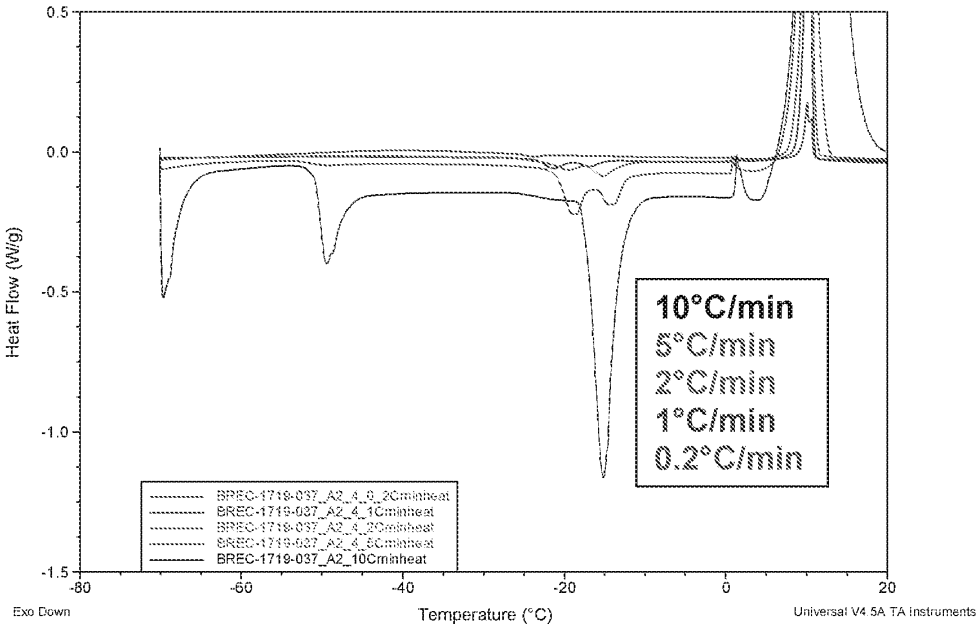

0.5
0.0
-0.5
-1.0
-1.5
Heat Flow (W/g)
-80
-60
-40
-20
0
20
Temperature (°C)
Exo Down
Universal V4.5A TA Instruments
10°C/min
5°C/min
2°C/min
1°C/min
0.2°C/min
BREC-1719-037_A2_4_1Cminheat
BREC-1719-037_A2_4_5Cminheat
BREC-1719-037_A2_10Cminheat

FIG. 5C

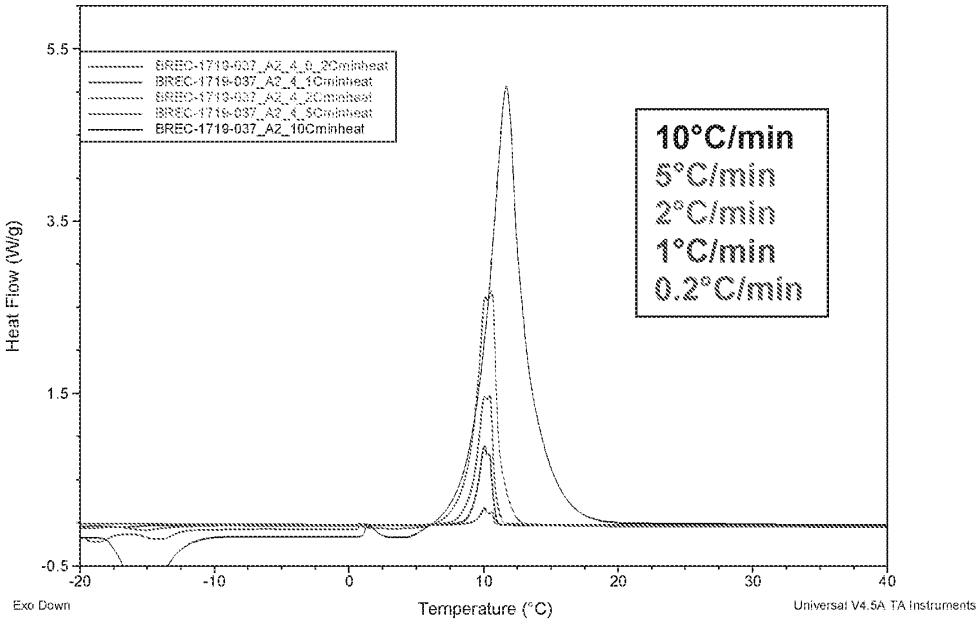
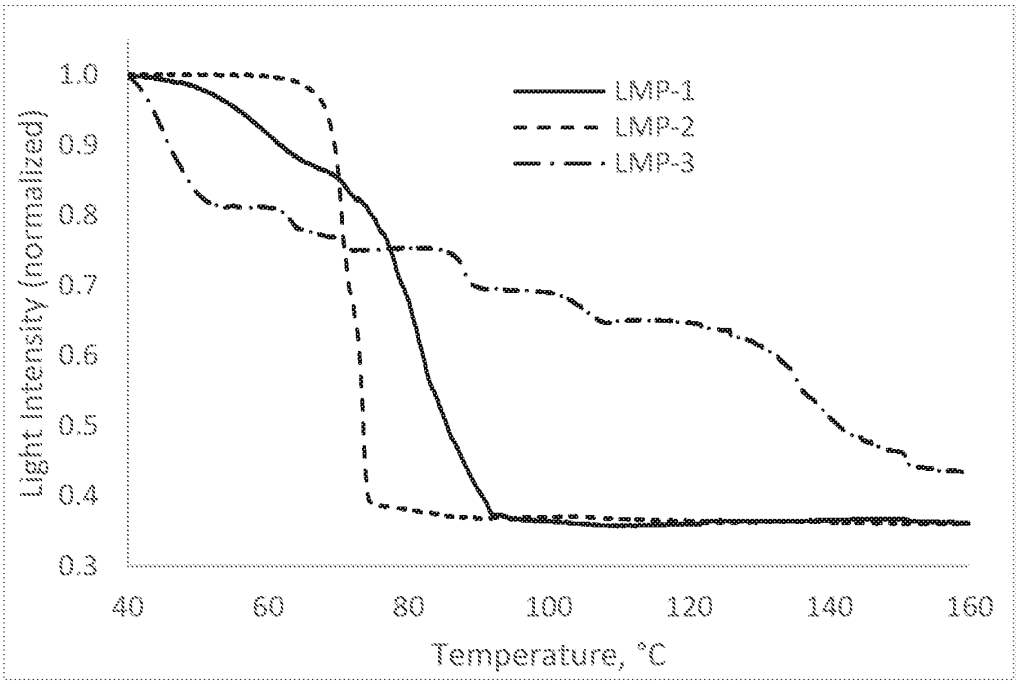
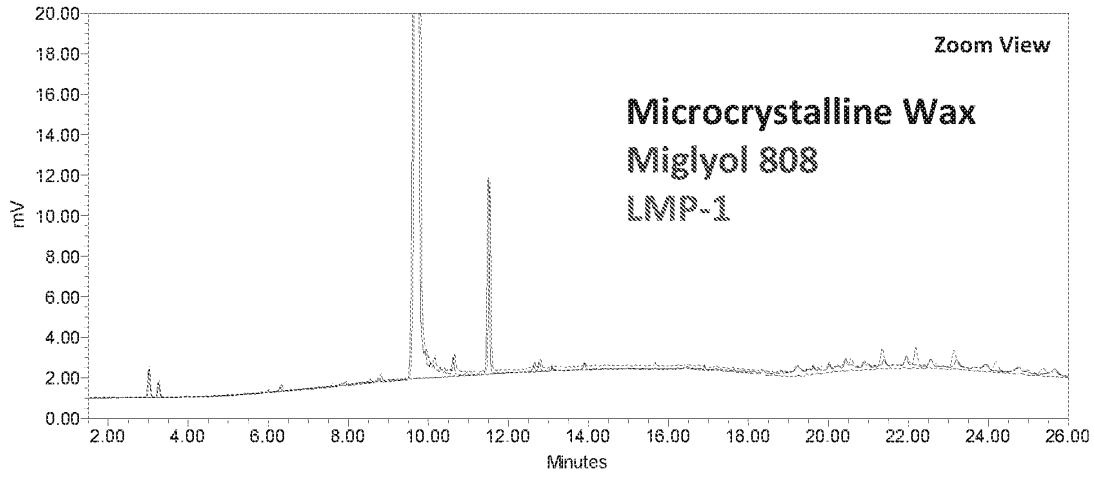
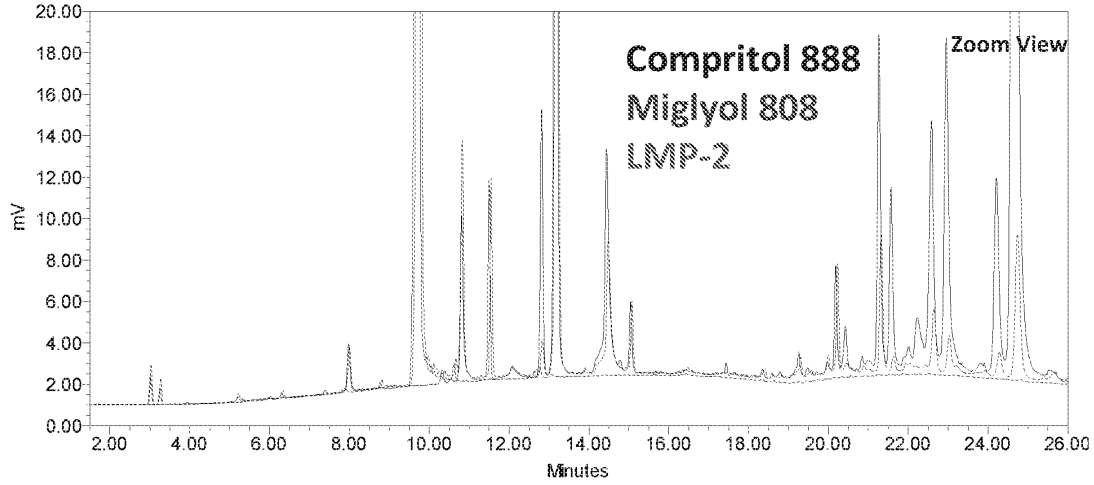

BREC-1719-037_AZ_4_5_2Cminheat
BREC-1719-037_AZ_4_1Cminheat
BREC-1719-037_AZ_4_2Cminheat
BREC-1719-037_AZ_4_5Cminheat
BREC-1719-037_AZ_10Cminheat
10°C/min
5°C/min
2°C/min
1°C/min
0.2°C/min
Heat Flow (W/g)
5.5
3.5
1.5
-0.5
-20
-10
0
10
20
30
40
Exo Down
Temperature (°C)
Universal V4.5A TA Instruments

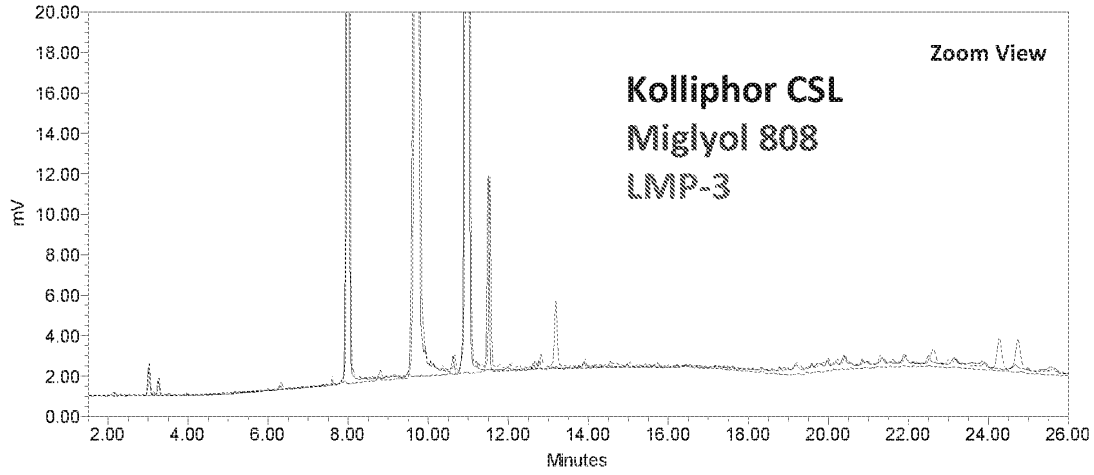
FIG. 6


LMP-1
LMP-2
LMP-3
Light Intensity (normalized)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
40
60
80
100
120
140
160
Temperature, °C

FIGs. 7A-C


Zoom View
Microcrystalline Wax
Miglyol 808
LMP-1
mV
Minutes


Zoom View
Compritol 888
Miglyol 808
LMP-2
mV
Minutes


Zoom View
Kolliphor CSL
Miglyol 808
LMP-3
mV
Minutes

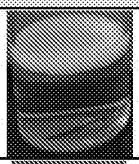
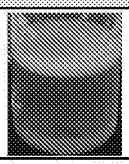
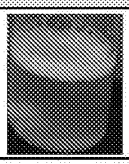
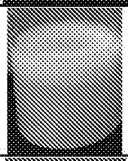
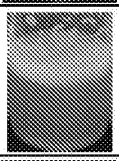
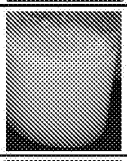
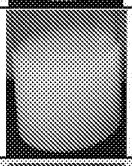
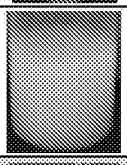
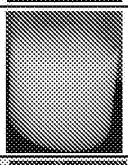
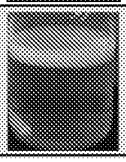
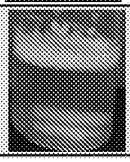
| | Body Temperature ~37°C | Room Temperature ~25°C | Cold Temperature ~5°C | NOTES/OBSERVATIONS |
|---|---|---|---|---|
| LMP-1 0.25% SLS solution |  |  |  | Body temperature test sample still appears clear after the run |
| LMP-2 0.25% SLS solution |  |  |  | The room temperature sample appears the 'clearest' |
| LMP-3 0.25% SLS solution |  |  |  | The body temperature (~37°C) sample was much higher viscosity than the other temperatures |
| LMP-1 0.5% SLS solution |  |  |  | 0.5% SLS dissolution test with LMP-1 visually appears the same across all temperatures |

FIG. 8

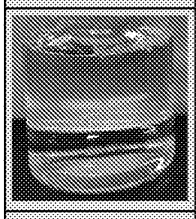
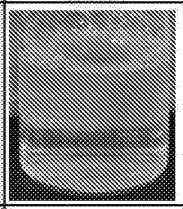
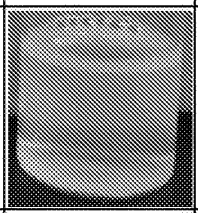
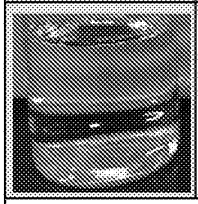
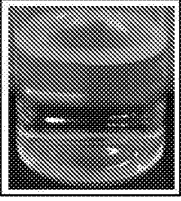
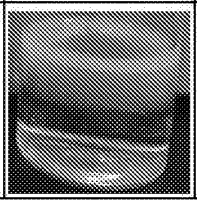
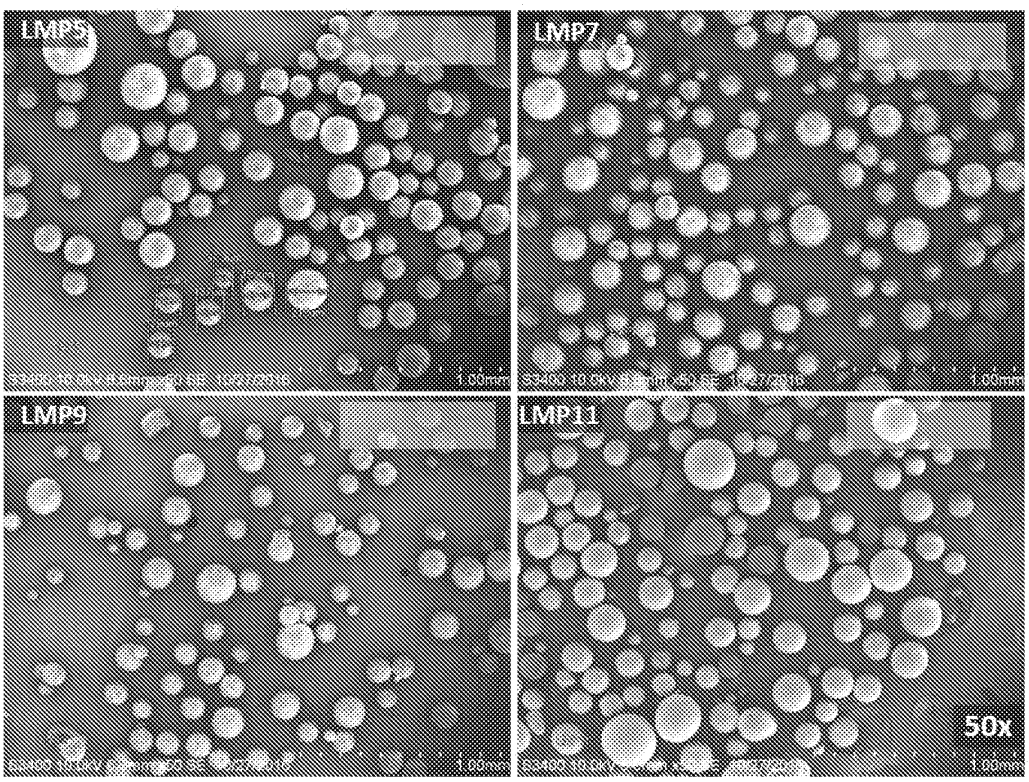
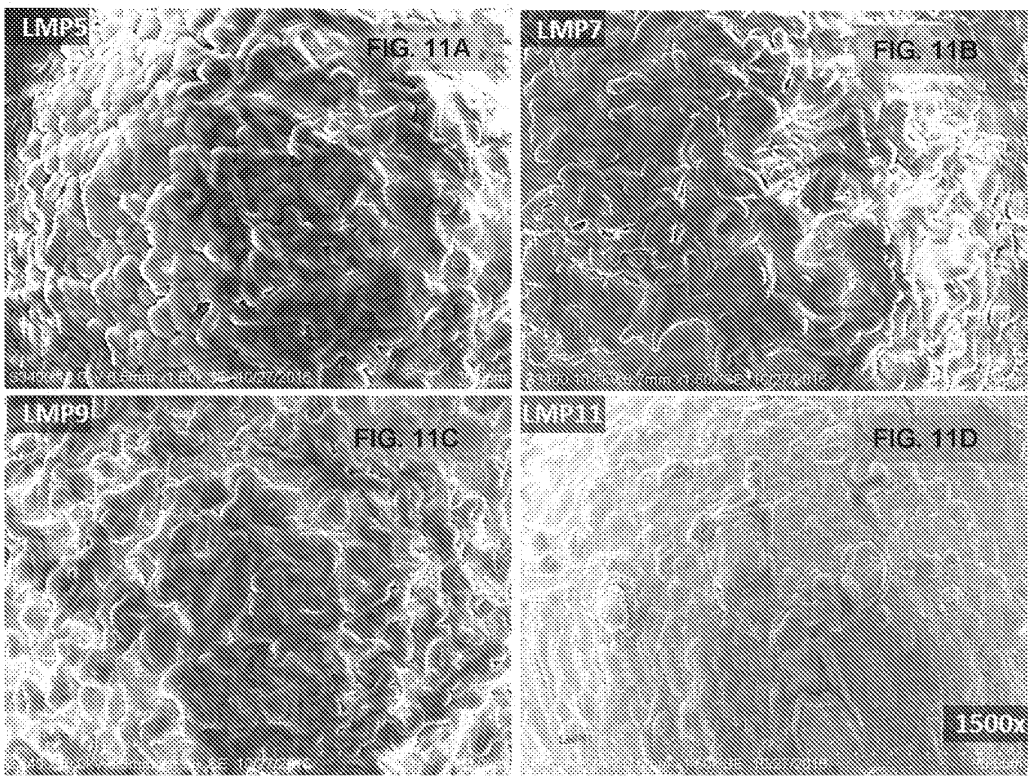
| 0.25% SLS/water solution 'CONTROL' | 250mg Miglyol 808 in 0.25% SLS/Water solution | 250mg Miglyol 808 in 0.5% SLS/Water solution | |
|---|---|---|---|
|  |  |  | Photos approximately 18 minutes after stirring |
|  |  |  | Photos after sitting all weekend |
| 250mg of Miglyol 808 was added to each of the 0.25% SLS and the 0.5% SLS water solutions and stirred for 20 minutes. Left most column is pure 0.25% SLS/water solution without any oil. | | | |

FIG. 9

FIGs. 10A-D




LMP5
FIG. 11A
LMP7
FIG. 11B
LMP9
FIG. 11C
LMP11
FIG. 11D
1500x

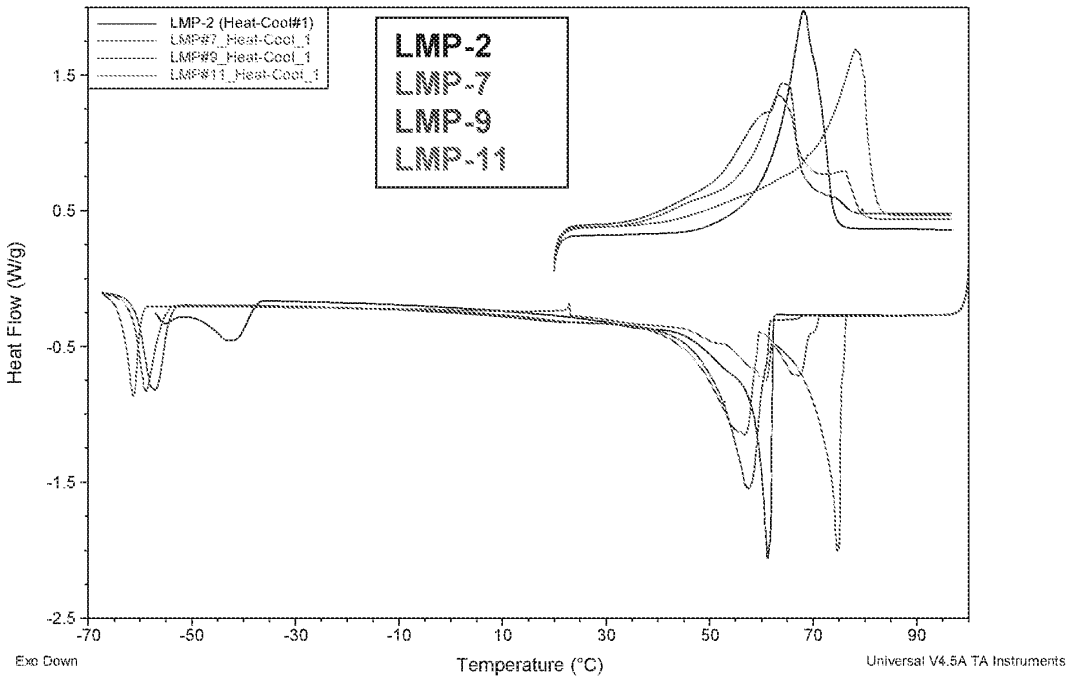

LMP-2 (Heat-Cool#1)
LMP#7_Heat-Cool_1
LMP#9_Heat-Cool_1
LMP#11_Heat-Cool_1
LMP-2
LMP-7
LMP-9
LMP-11
Heat Flow (W/g)
1.5
0.5
-0.5
-1.5
-2.5
-70
-50
-30
-10
10
30
50
70
90
Exo Down
Temperature (°C)
Universal V4.5A TA Instruments

FIG. 12

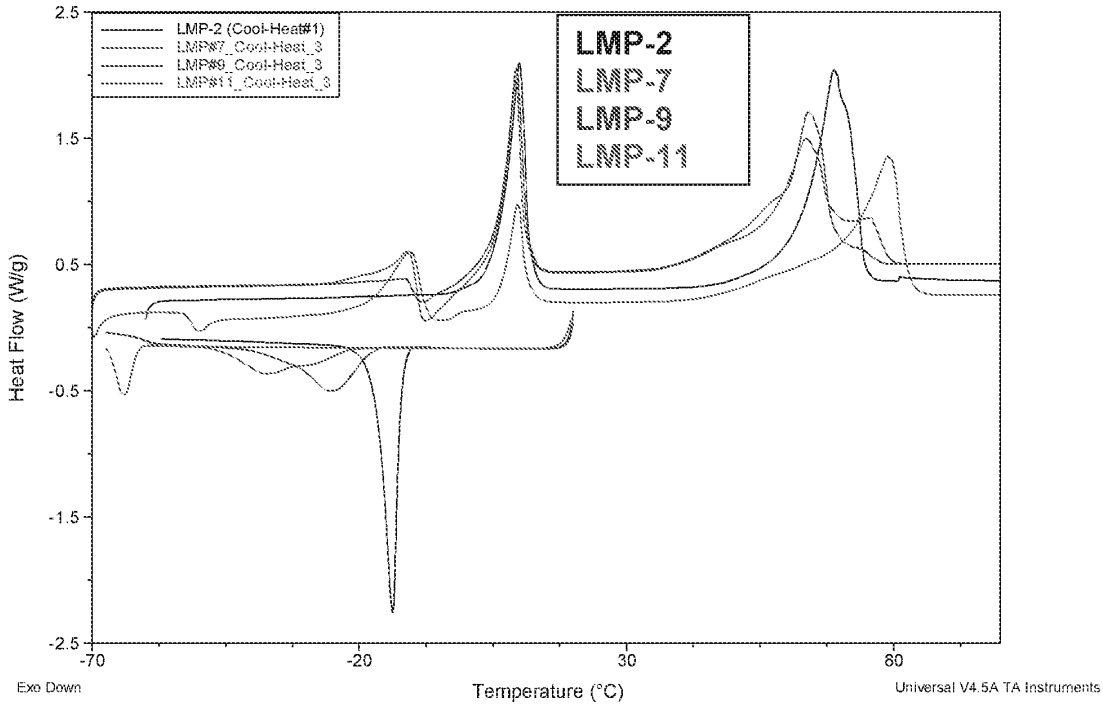
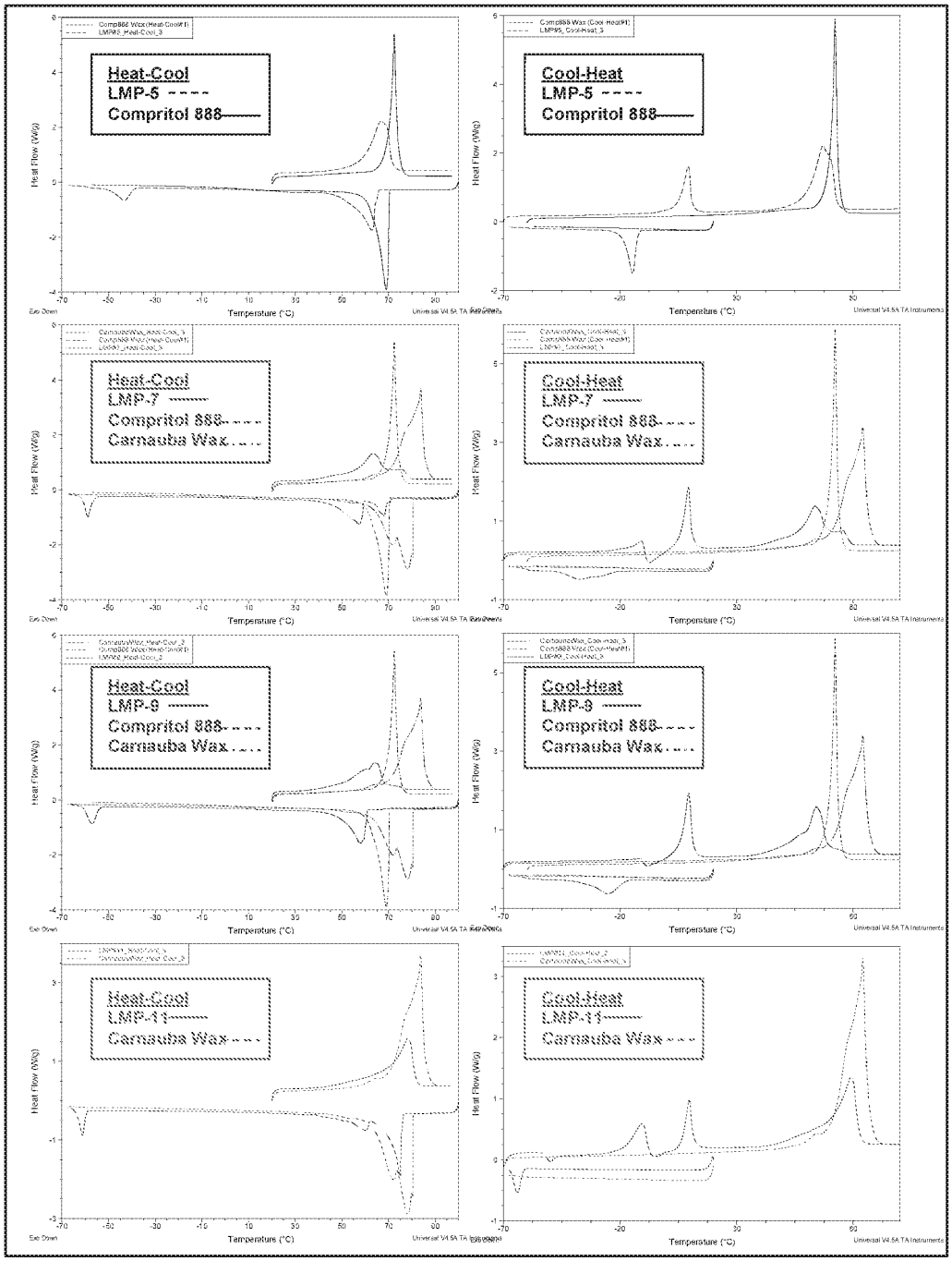

LMP-2 (Cool-Heat#1)
LMP#7_Cool-Heat_3
LMP#9_Cool-Heat_3
LMP#11_Cool-Heat_3
LMP-2
LMP-7
LMP-9
LMP-11
Heat Flow (W/g)
2.5
1.5
0.5
-0.5
-1.5
-2.5
-70
-20
30
80
Exo Down
Temperature (°C)
Universal V4.5A TA Instruments

FIG. 13

FIGs. 14A-H


Heat-Cool
LMP-5
Compritol 888
Cool-Heat
LMP-5
Compritol 888
Heat-Cool
LMP-7
Compritol 888
Carnauba Wax
Cool-Heat
LMP-7
Compritol 888
Carnauba Wax
Heat-Cool
LMP-9
Compritol 888
Carnauba Wax
Cool-Heat
LMP-9
Compritol 888
Carnauba Wax
Heat-Cool
LMP-11
Carnauba Wax
Cool-Heat
LMP-11
Carnauba Wax
Heat Flow (W/g)
Temperature (°C)
Exo Down
Universal V4.5A TA Instruments

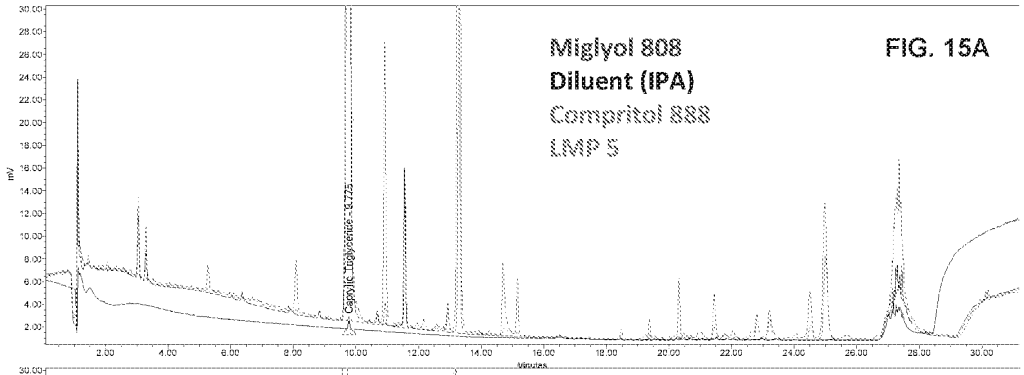



FIG. 15A

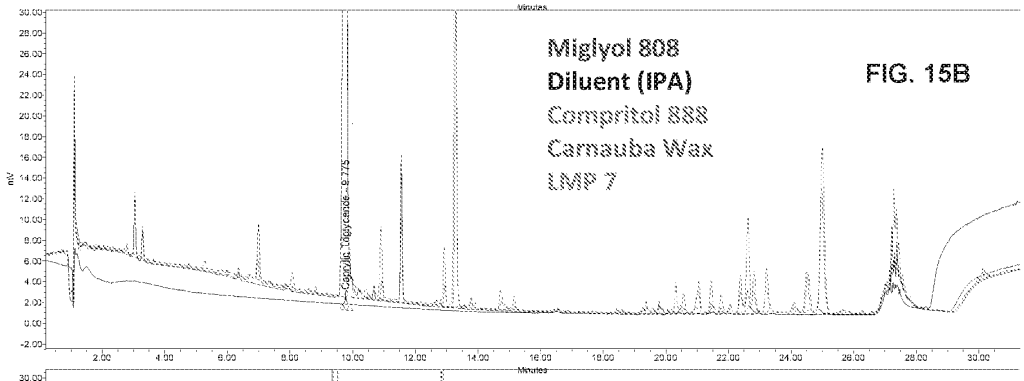



FIG. 15B

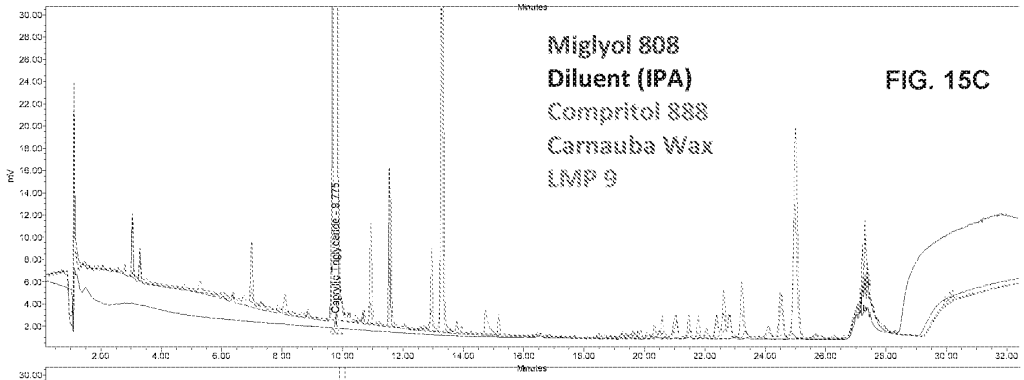



FIG. 15C

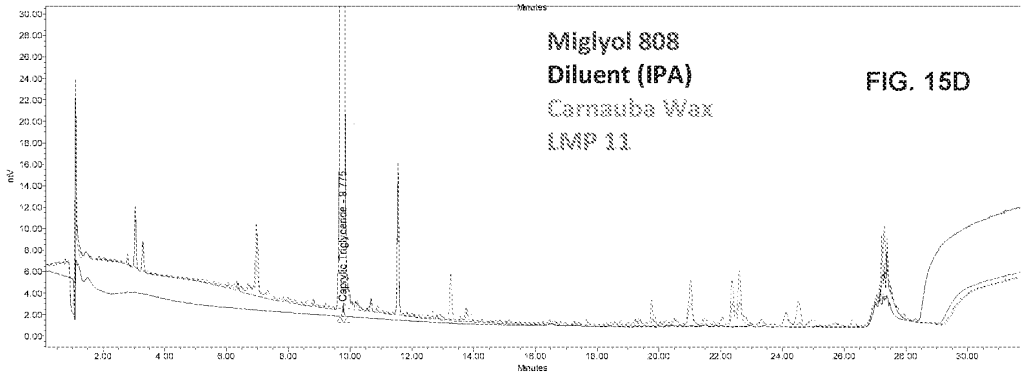



FIG. 15D

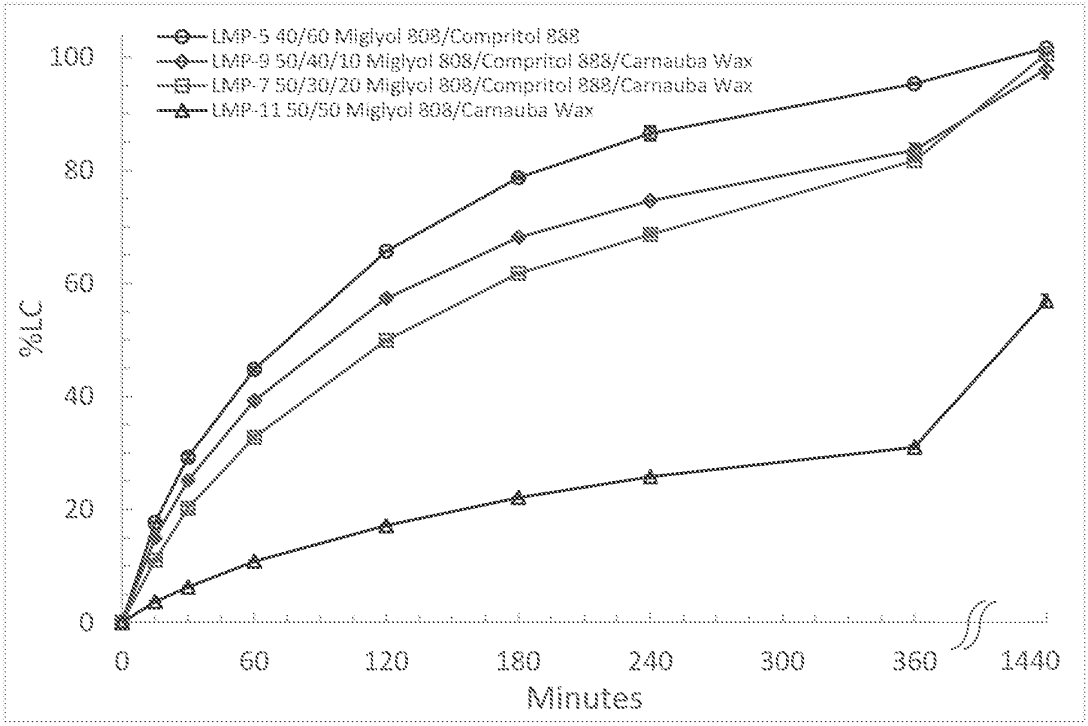

LMP-5 40/60 Miglyol 808/Compritol 888
LMP-9 50/40/10 Miglyol 808/Compritol 888/Carnauba Wax
LMP-7 50/30/20 Miglyol 808/Compritol 888/Carnauba Wax
LMP-11 50/50 Miglyol 808/Carnauba Wax
%LC
100
80
60
40
20
0
0
60
120
180
240
300
360
1440
Minutes

FIG. 16

FIG. 17A

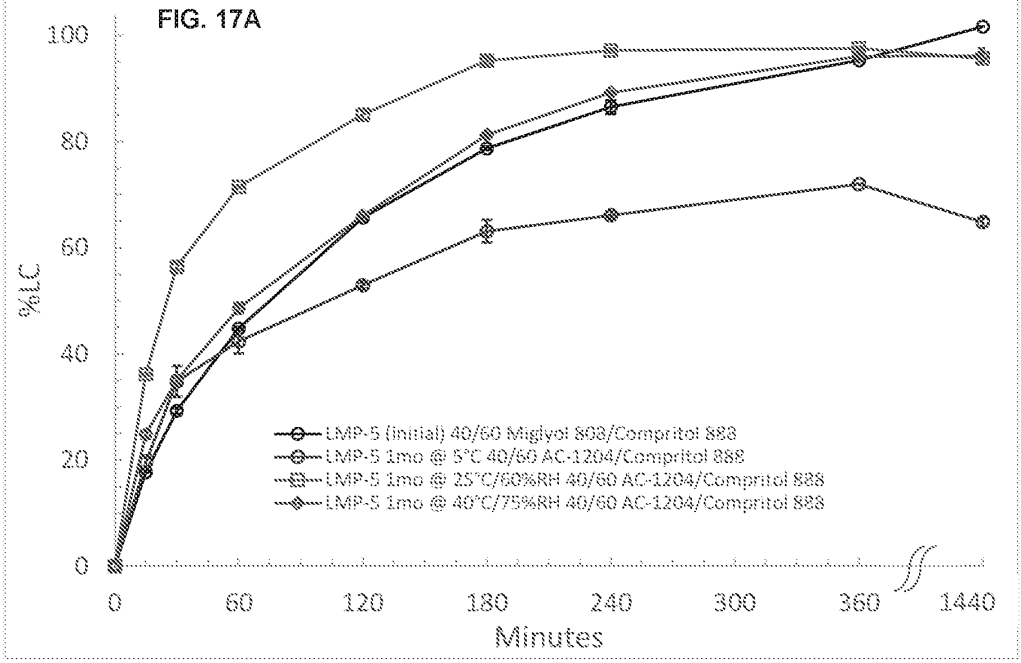
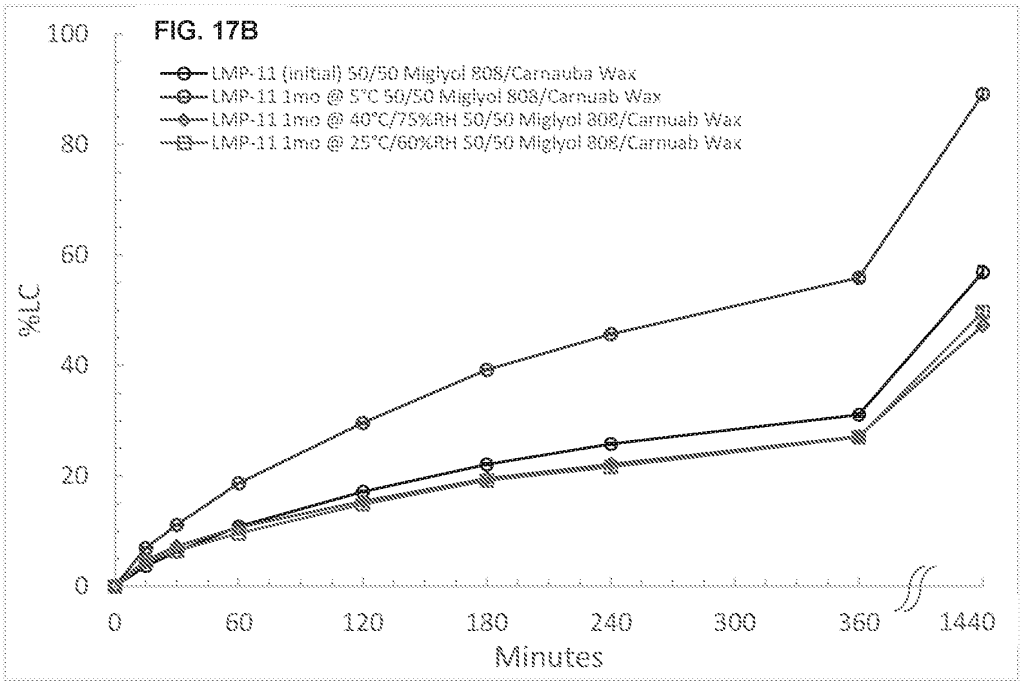
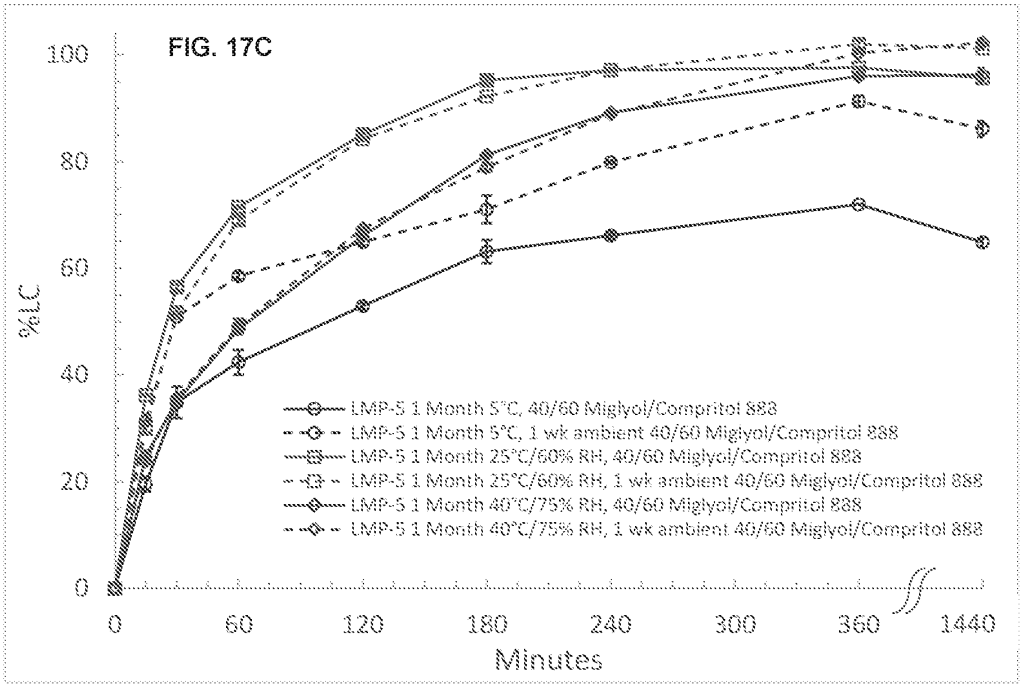
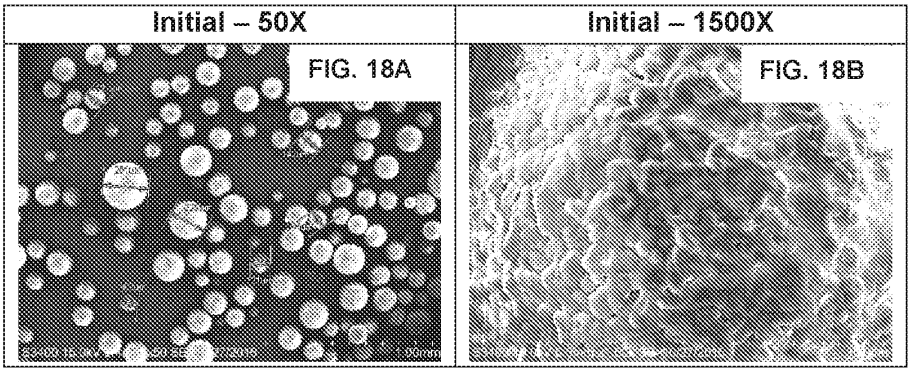
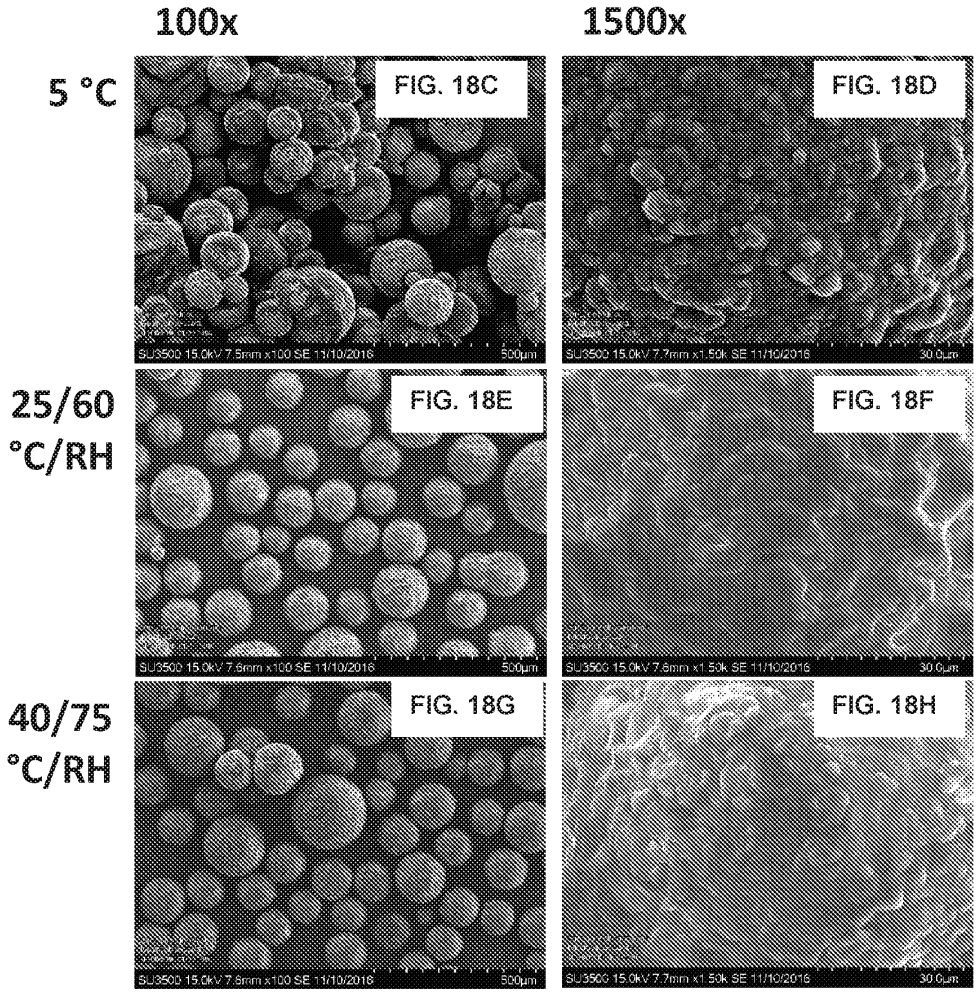


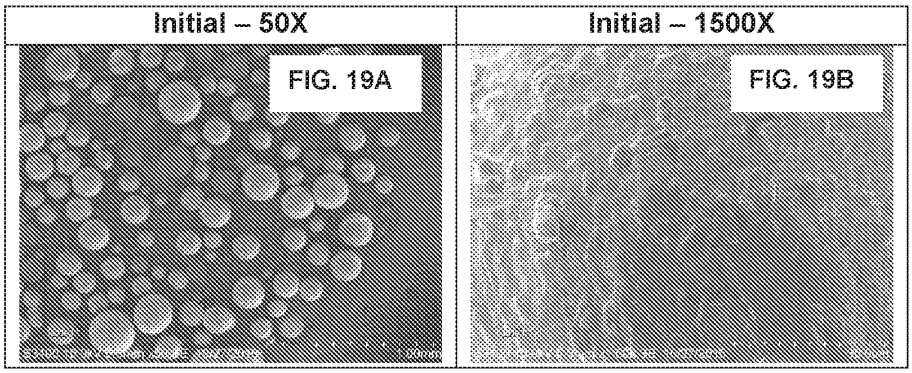

FIG. 17B

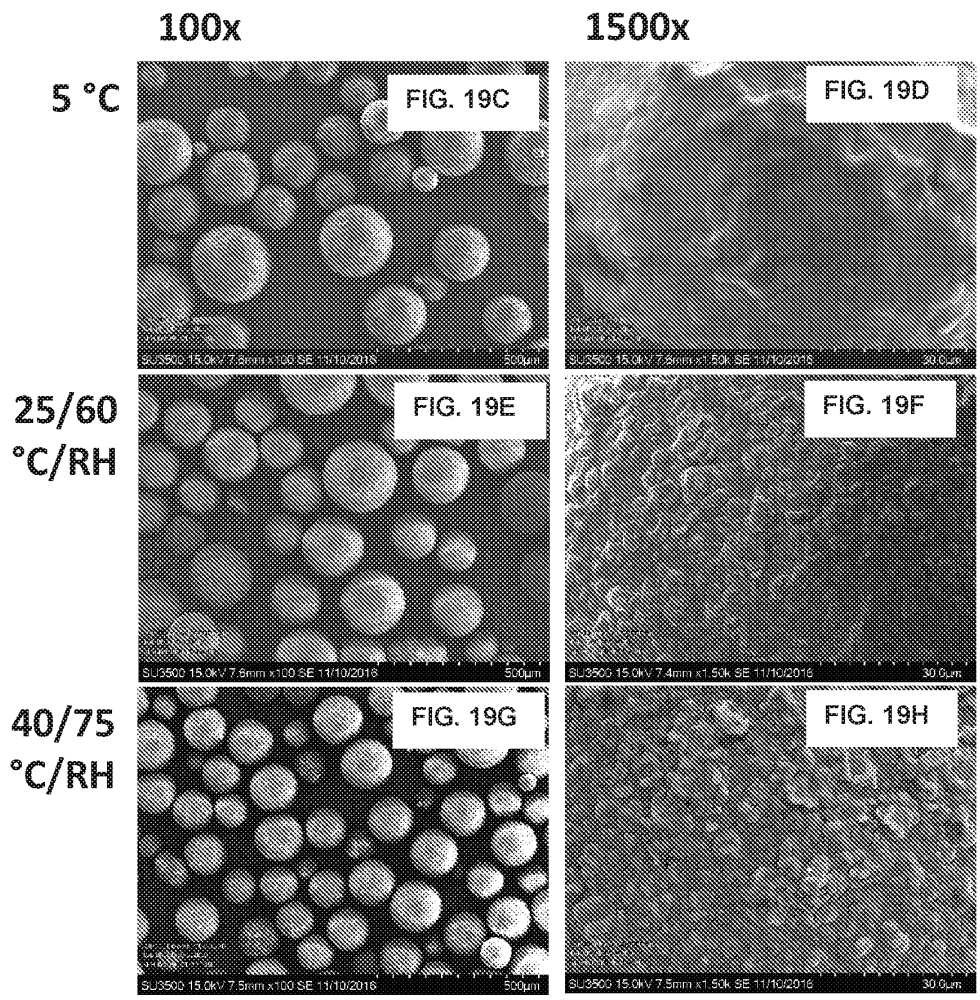



FIG. 17C
100
80
60
40
20
0
% LC
0
60
120
180
240
300
360
1440
Minutes
LMP-5 1 Month 5°C, 40/60 Miglyol/Compritol 888
LMP-5 1 Month 5°C, 1 wk ambient 40/60 Miglyol/Compritol 888
LMP-5 1 Month 25°C/60% RH, 40/60 Miglyol/Compritol 888
LMP-5 1 Month 25°C/60% RH, 1 wk ambient 40/60 Miglyol/Compritol 888
LMP-5 1 Month 40°C/75% RH, 40/60 Miglyol/Compritol 888
LMP-5 1 Month 40°C/75% RH, 1 wk ambient 40/60 Miglyol/Compritol 888

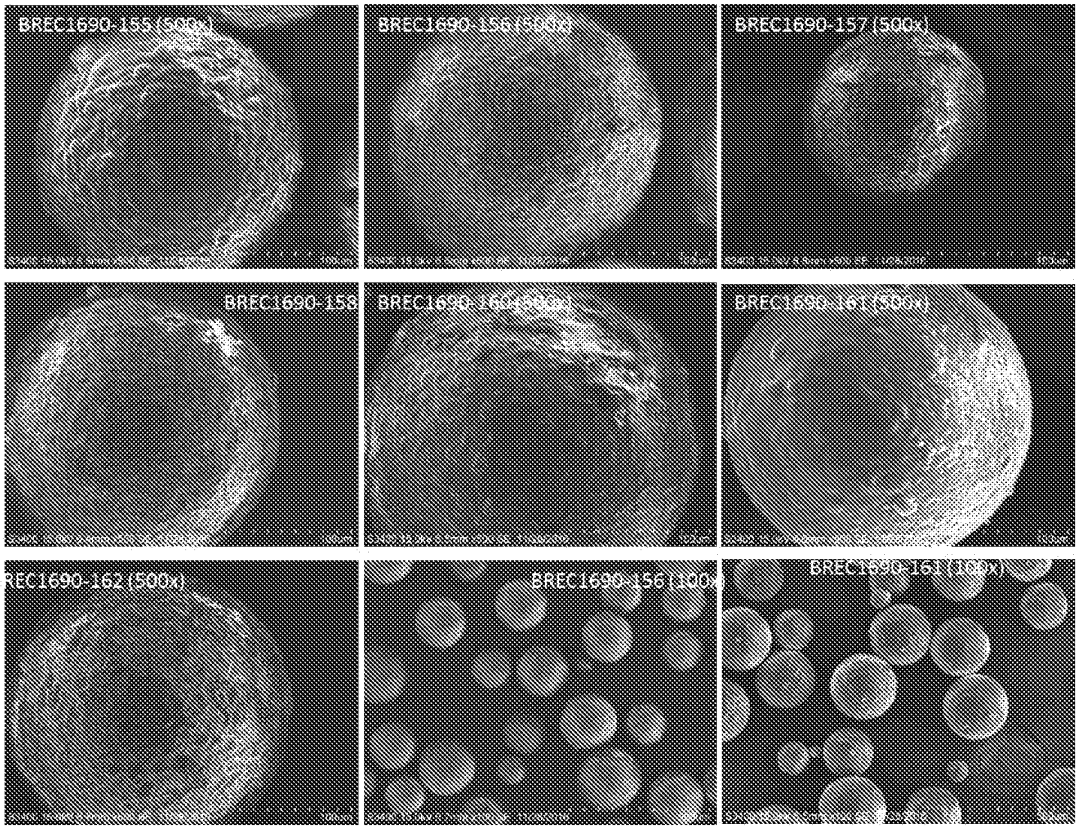

Initial – 50X
Initial – 1500X
FIG. 18A
FIG. 18B


100x
1500x
5 °C
25/60 °C/RH
40/75 °C/RH
FIG. 18C
FIG. 18D
FIG. 18E
FIG. 18F
FIG. 18G
FIG. 18H


Initial – 50X
Initial – 1500X
FIG. 19A
FIG. 19B


100x
1500x
5 °C
25/60 °C/RH
40/75 °C/RH
FIG. 19C
FIG. 19D
FIG. 19E
FIG. 19F
FIG. 19G
FIG. 19H

FIGs. 20A-H


BREC1690-155(500x)
BREC1690-156(500x)
BREC1690-157(500x)
BREC1690-158
BREC1690-160(500x)
BREC1690-161(500x)
BREC1690-162(500x)
BREC1690-156(100x)
BREC1690-161(100x)

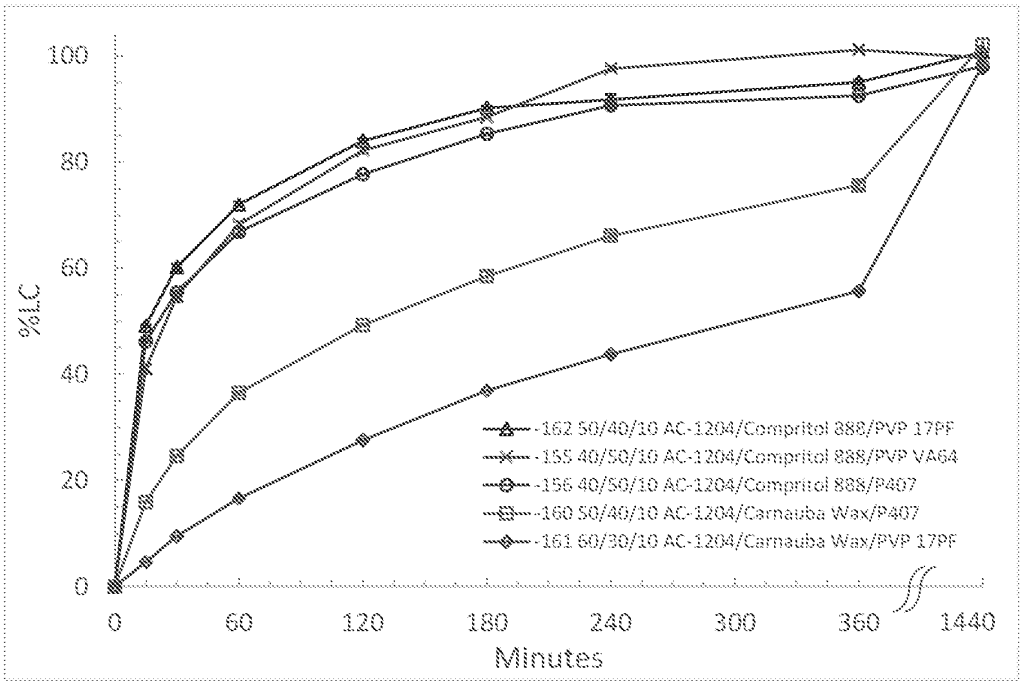

100
80
60
40
20
0
%LC
0
60
120
180
240
300
360
1440
Minutes
-162 50/40/10 AC-1204/Compritol 888/PVP 17PF
-155 40/50/10 AC-1204/Compritol 888/PVP VA64
-156 40/50/10 AC-1204/Compritol 888/P407
-160 50/40/10 AC-1204/Carnauba Wax/P407
-161 60/30/10 AC-1204/Carnauba Wax/PVP 17PF

FIG. 21

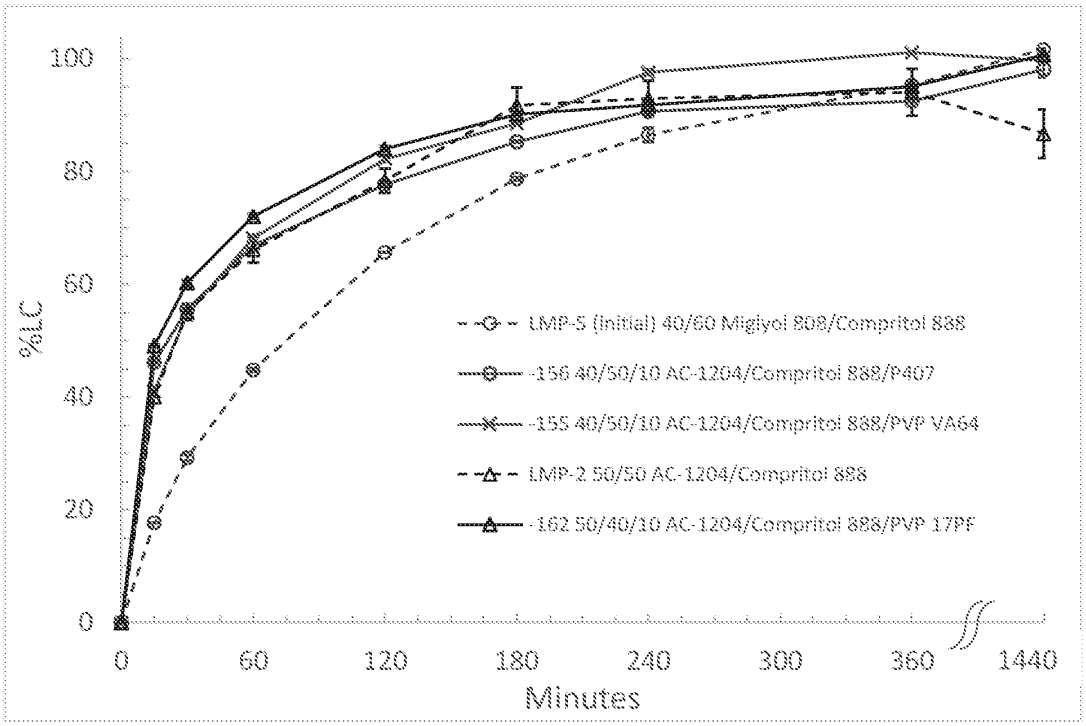

100
80
60
40
20
0
%LC
0
60
120
180
240
300
360
1440
Minutes
LMP-5 (initial) 40/60 Migiyol 808/Compritol 888
-156 40/50/10 AC-1204/Compritol 888/P407
-155 40/50/10 AC-1204/Compritol 888/PVP VA64
LMP-2 50/50 AC-1204/Compritol 888
-162 50/40/10 AC-1204/Compritol 888/PVP 17PF

FIG. 22

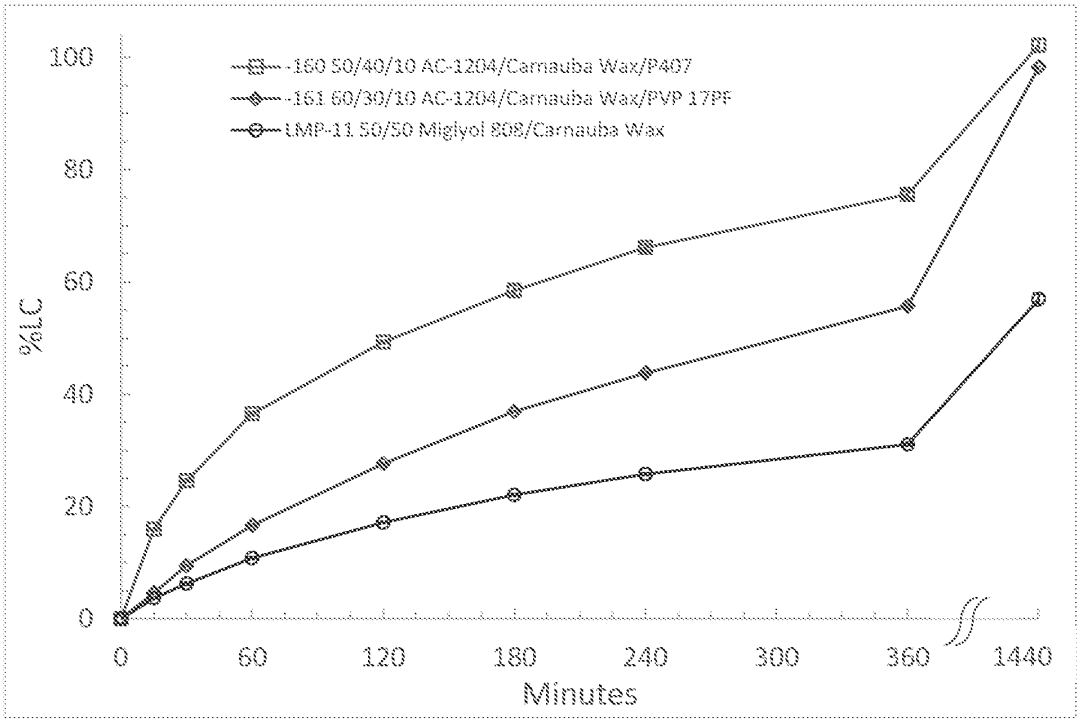

100
80
60
40
20
0
%LC
0
60
120
180
240
300
360
1440
Minutes
-160 50/40/10 AC-1204/Carnauba Wax/P407
-161 60/30/10 AC-1204/Carnauba Wax/PVP 17PF
LMP-11 50/50 Migiyol 808/Carnauba Wax

FIG. 23

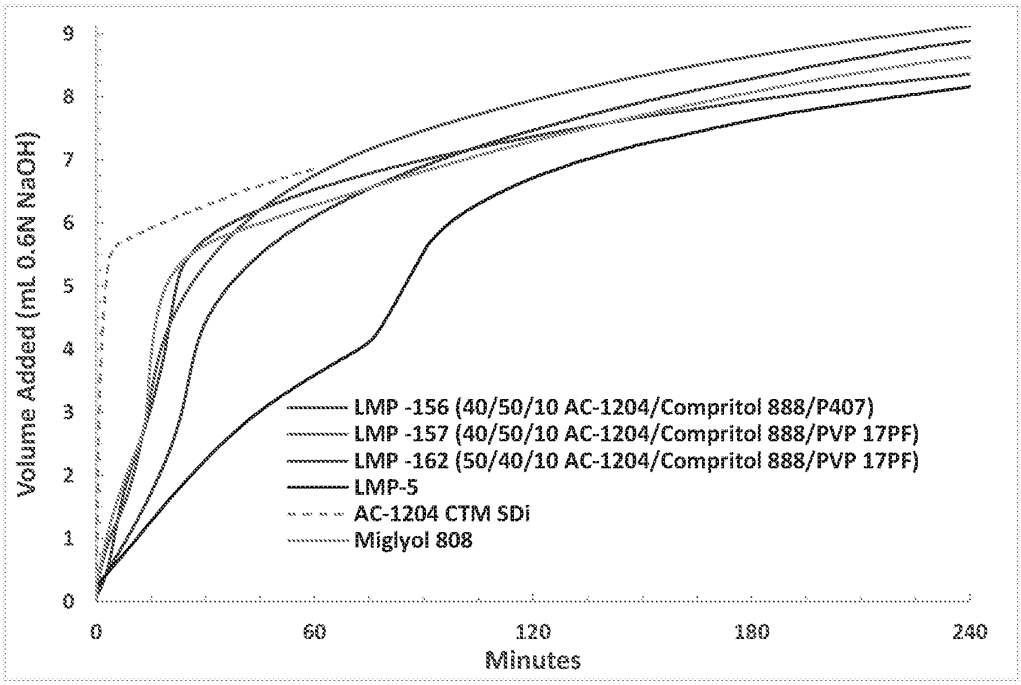

Volume Added (mL 0.6N NaOH)
0
1
2
3
4
5
6
7
8
9
0
60
120
180
240
Minutes
LMP -156 (40/50/10 AC-1204/Compritol 888/P407)
LMP -157 (40/50/10 AC-1204/Compritol 888/PVP 17PF)
LMP -162 (50/40/10 AC-1204/Compritol 888/PVP 17PF)
LMP-5
AC-1204 CTM SDi
Miglyol 808

FIG. 24

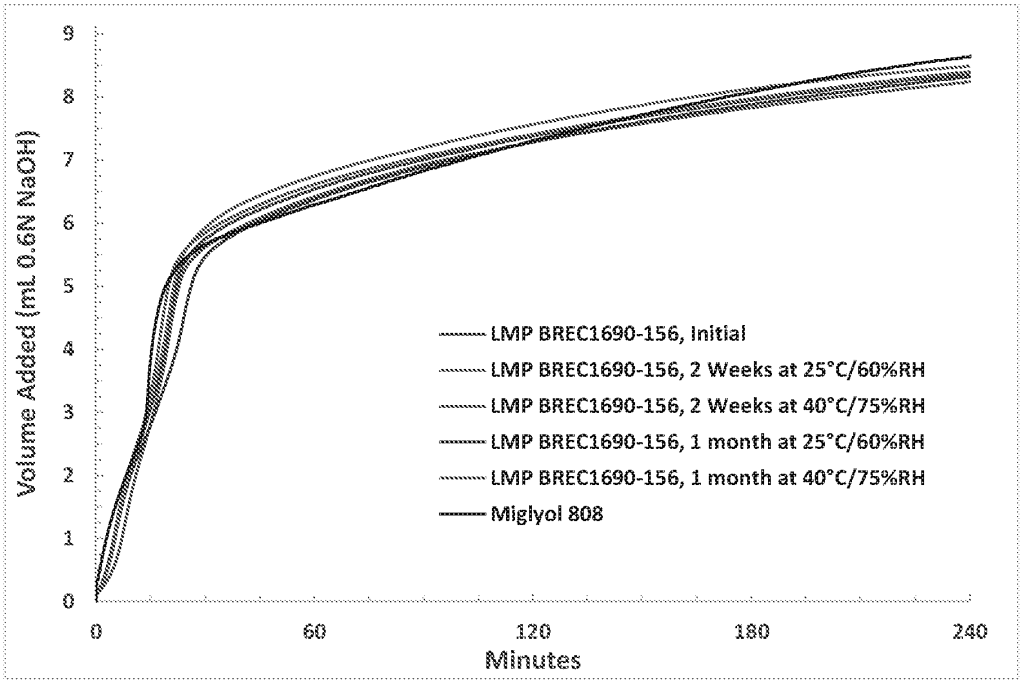

Volume Added (mL 0.6N NaOH)
0
1
2
3
4
5
6
7
8
9
0
60
120
180
240
Minutes
LMP BREC1690-156, Initial
LMP BREC1690-156, 2 Weeks at 25°C/60%RH
LMP BREC1690-156, 2 Weeks at 40°C/75%RH
LMP BREC1690-156, 1 month at 25°C/60%RH
LMP BREC1690-156, 1 month at 40°C/75%RH
Miglyol 808

FIG. 25

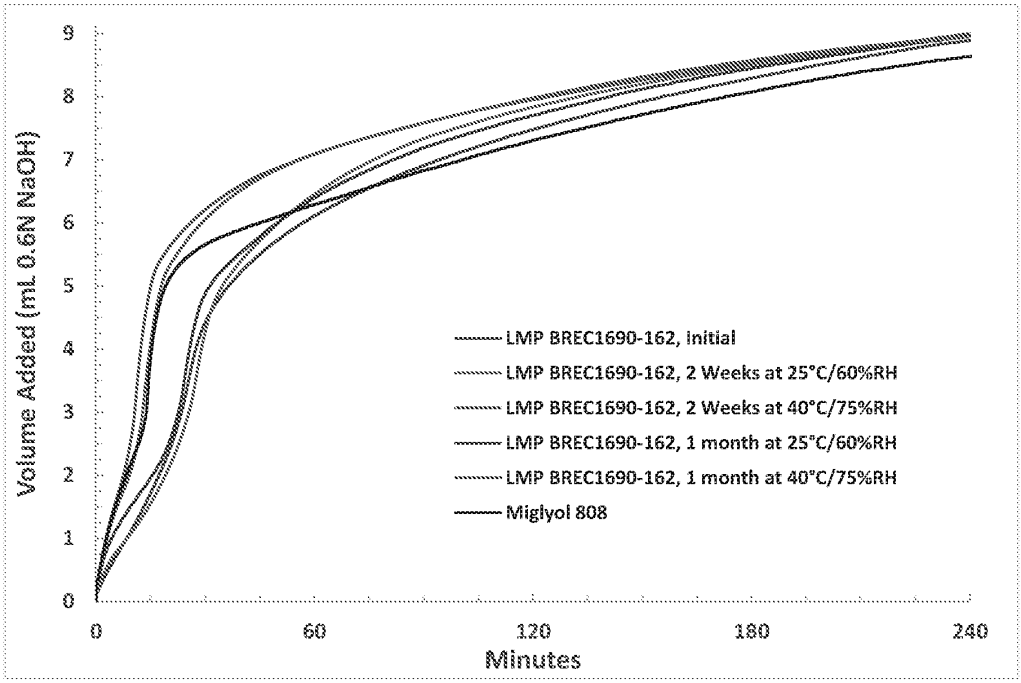



FIG. 26

FIG. 27A FIG. 27B FIG. 27C FIG. 27D

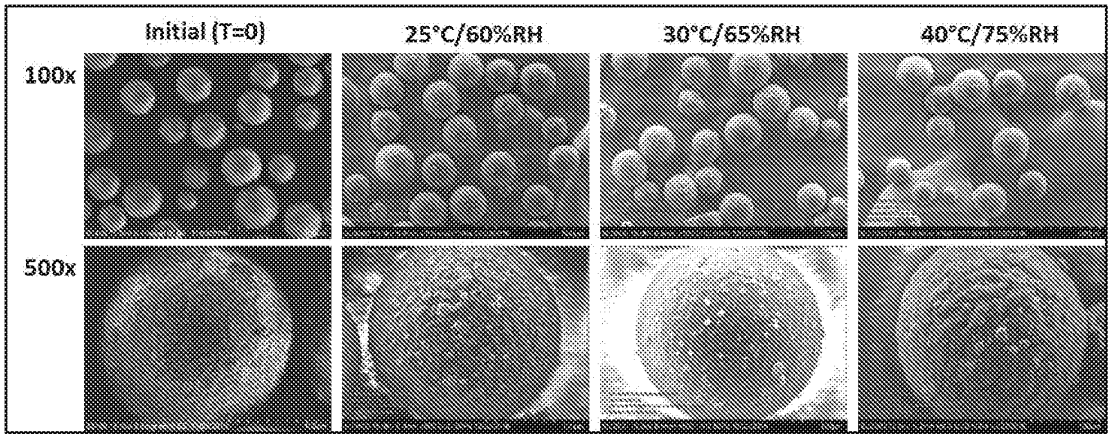


FIG. 28A Initial (T=0) | FIG. 28B 25°C/60%RH | FIG. 28C 30°C/65%RH | FIG. 28D 40°C/75%RH

100x

500x

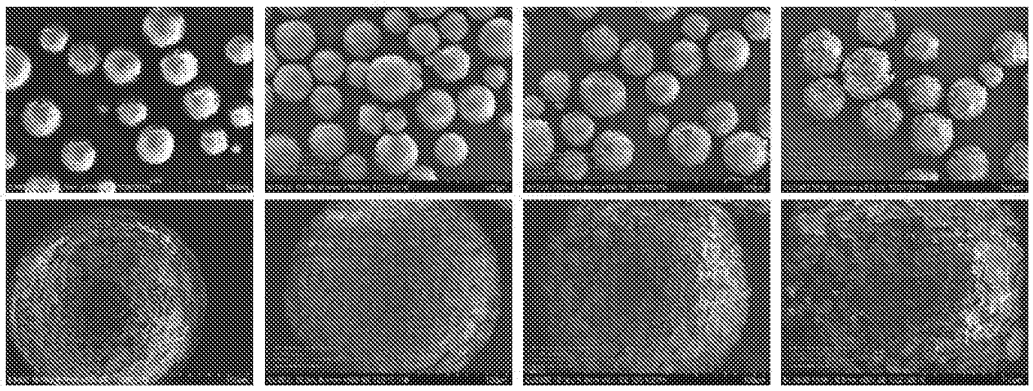


FIG. 29A Initial (T=0) | FIG. 29B 25°C/60%RH | FIG. 29C 30°C/65%RH | FIG. 29D 40°C/75%RH

100x

500x

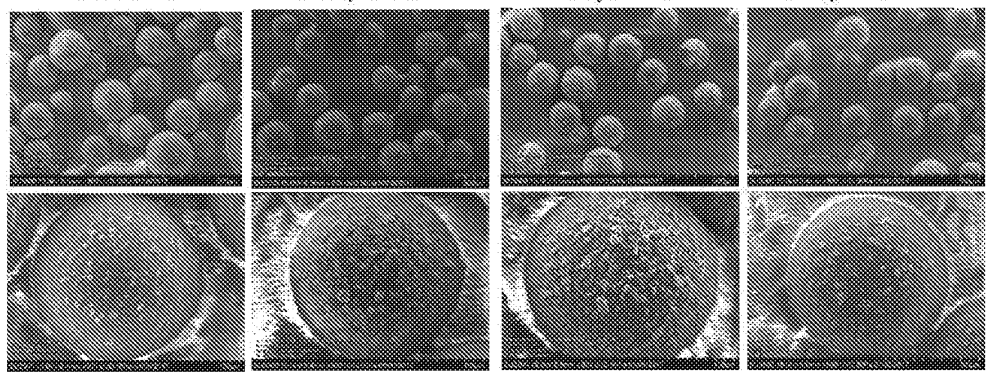
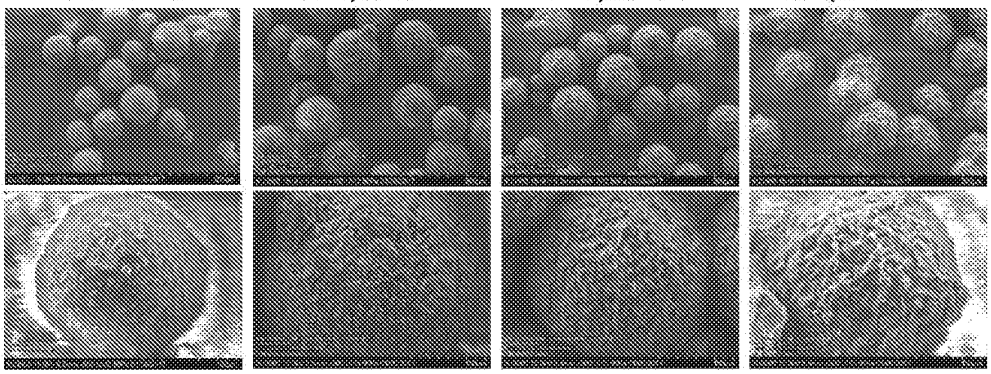


FIG. 30A Initial (T=0) | FIG. 30B 25°C/60%RH | FIG. 30C 30°C/65%RH | FIG. 30D 40°C/75%RH

100x

500x



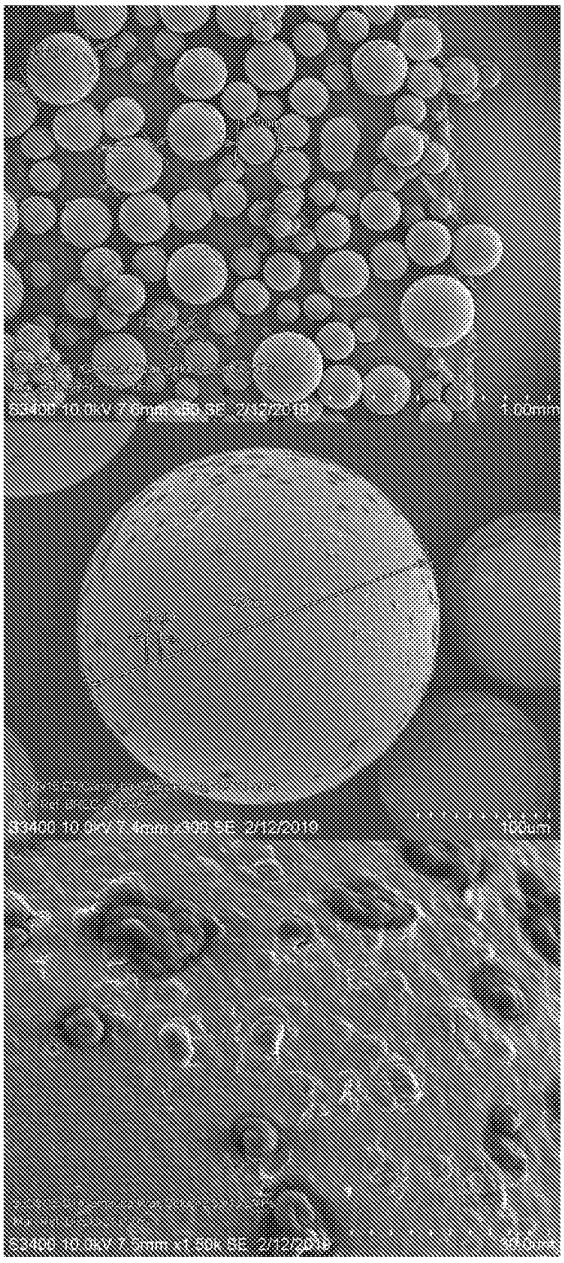


FIG. 31A

FIG. 31B

FIG. 31C

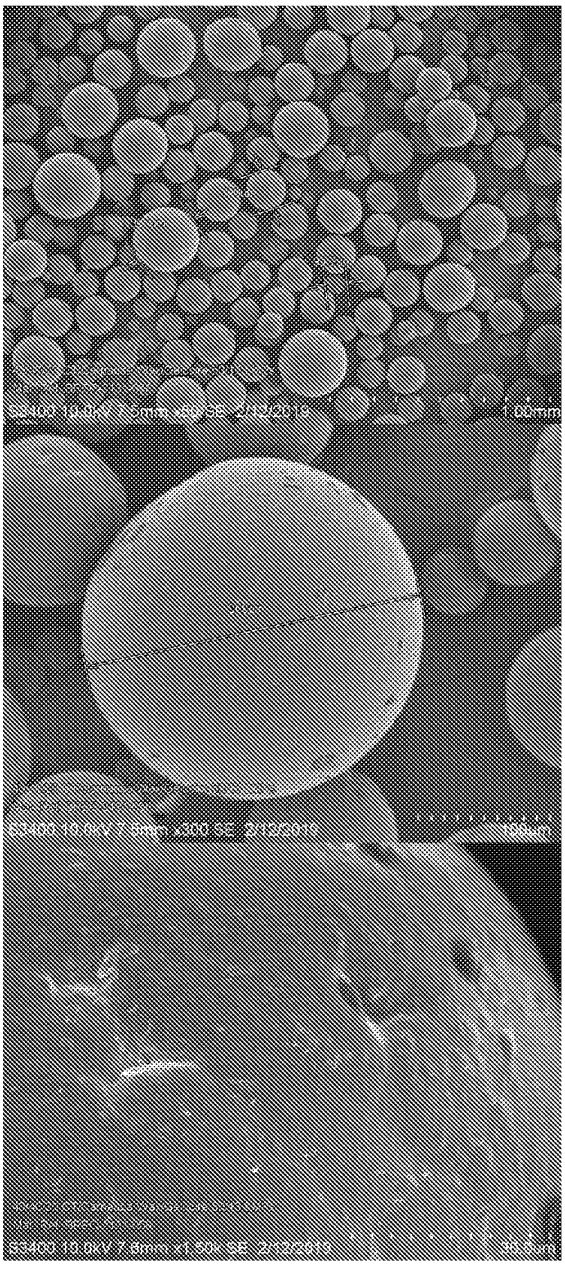


FIG. 32A

FIG. 32B

FIG. 32C

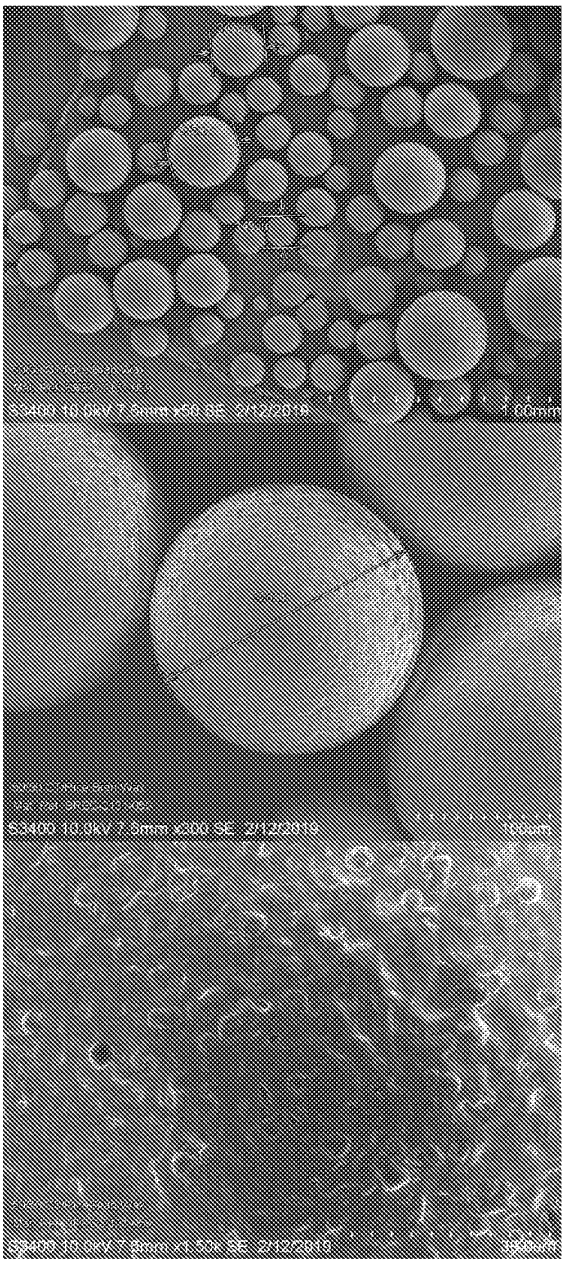


FIG. 33A

FIG. 33B

FIG. 33C

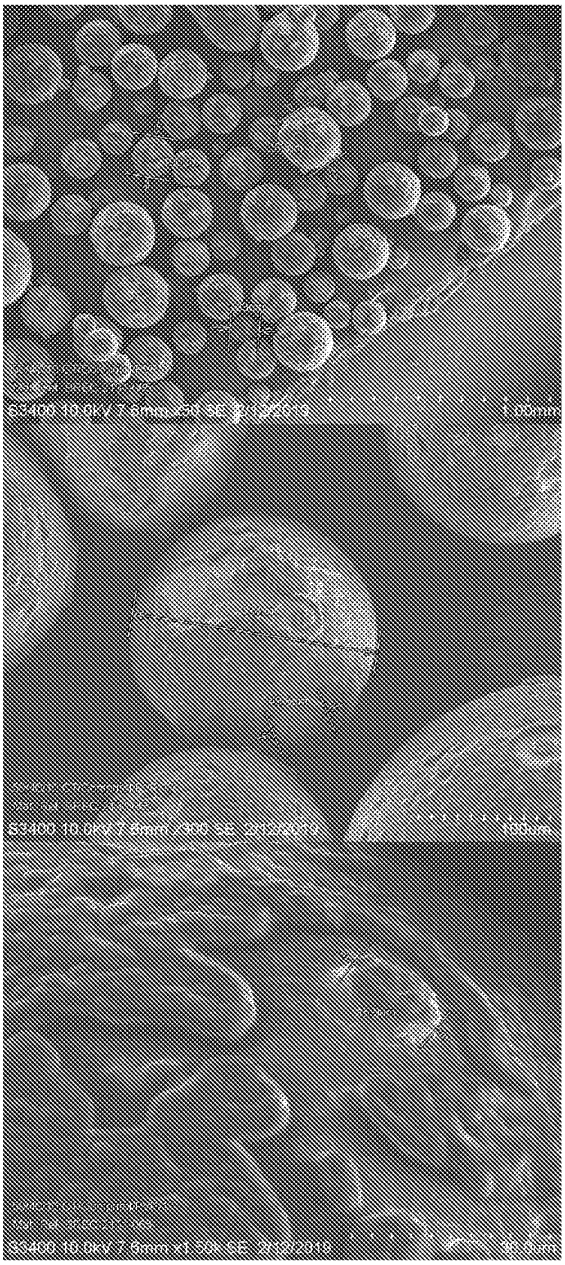


FIG. 34A

FIG. 34B

FIG. 34C

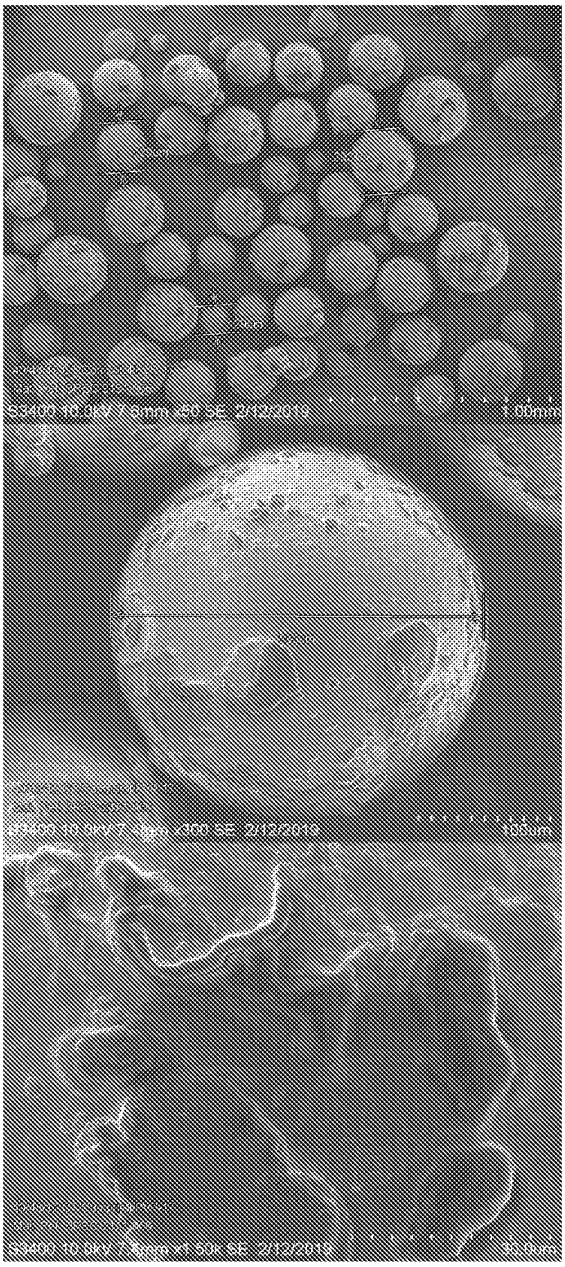


FIG. 35A

FIG. 35B

FIG. 35C