FIG. 1

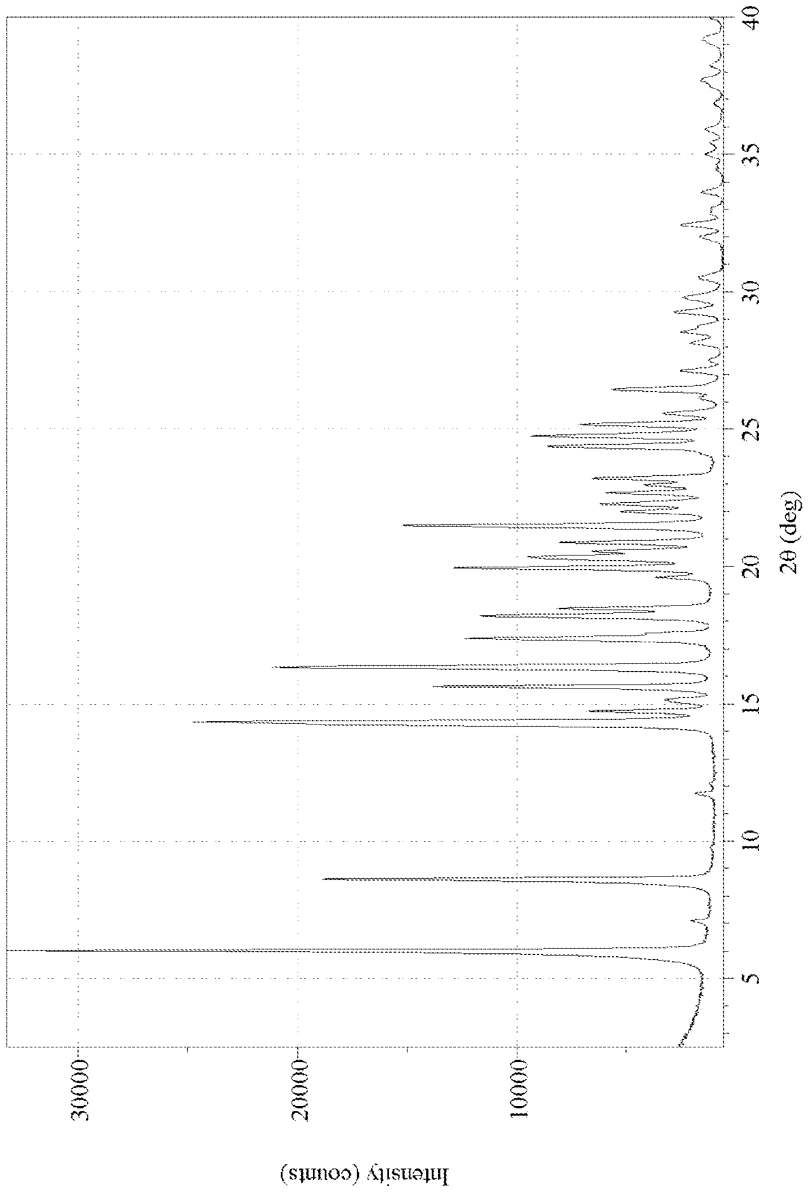

Intensity (counts)
30000
20000
10000
5
10
15
20
25
30
35
40
2θ (deg)

FIG. 2

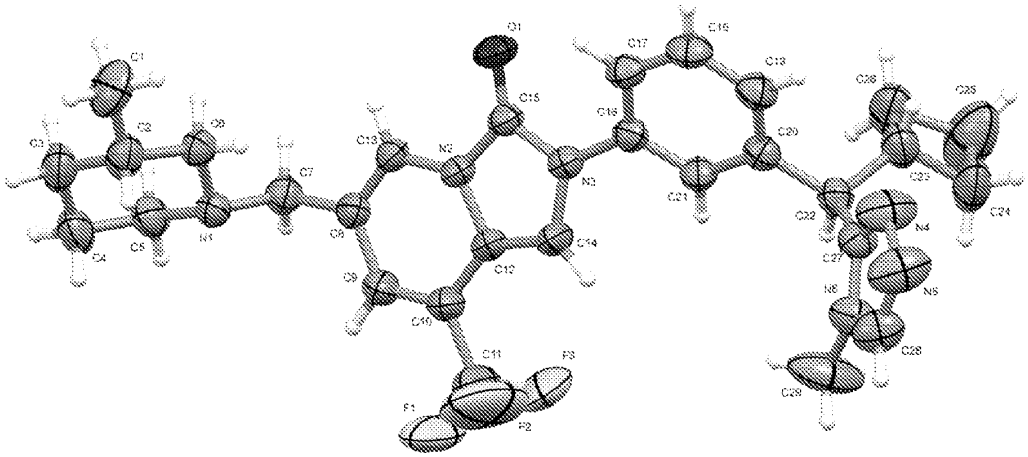

O1
C15
C16
C17
C18
C19
C20
C21
C22
C23
C24
C25
C26
C27
C28
C29
N1
N2
N3
N4
N5
N6
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
C13
C14
F1
F2
F3

FIG. 3

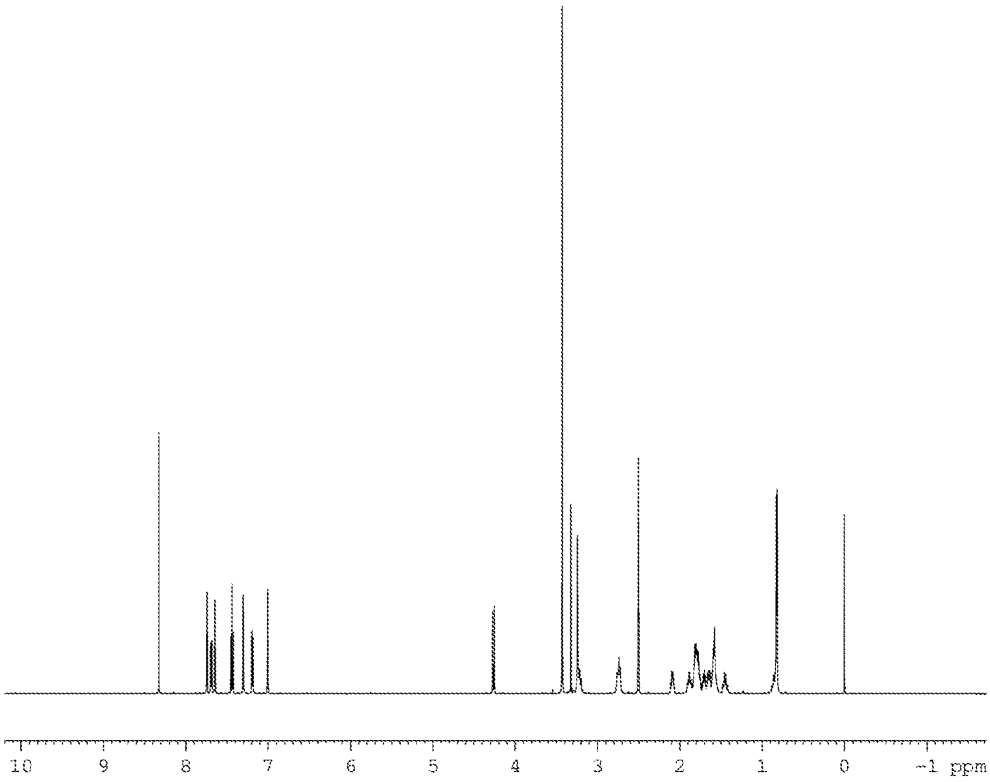


FIG. 4

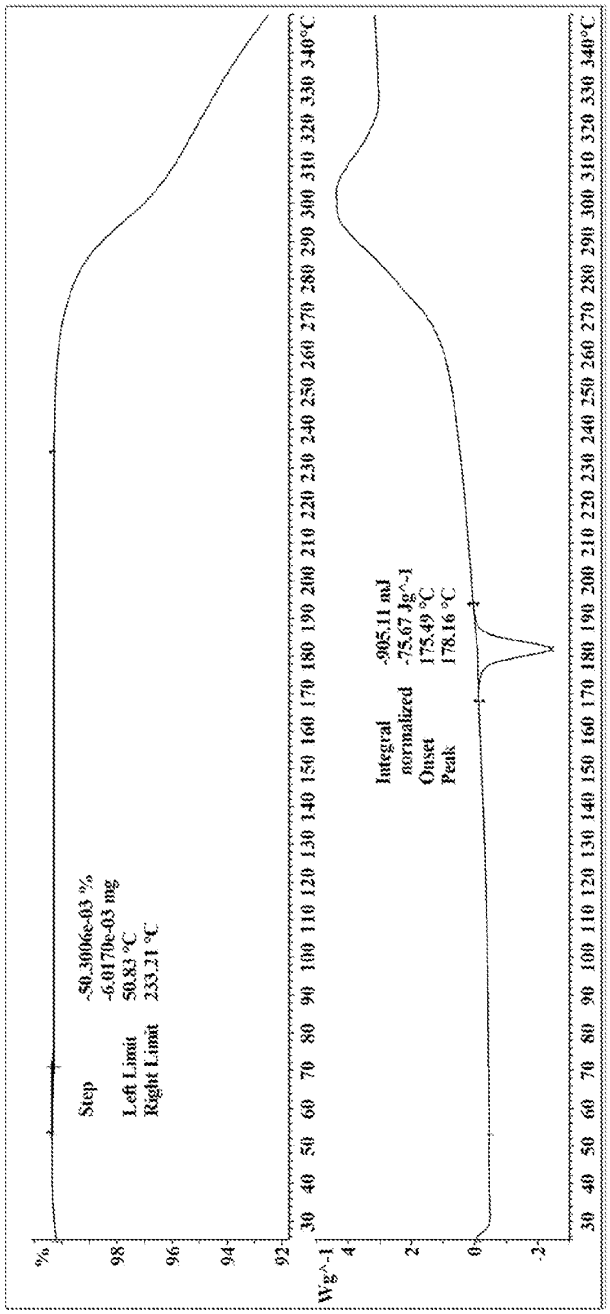

%
Wg^-1
°C
Step -50.3006e-03 %
-6.0170e-03 mg
Left Limit 50.83 °C
Right Limit 233.21 °C
Integral -905.11 mJ
normalized -75.67 Jg^-1
Onset 175.49 °C
Peak 178.16 °C

FIG. 5

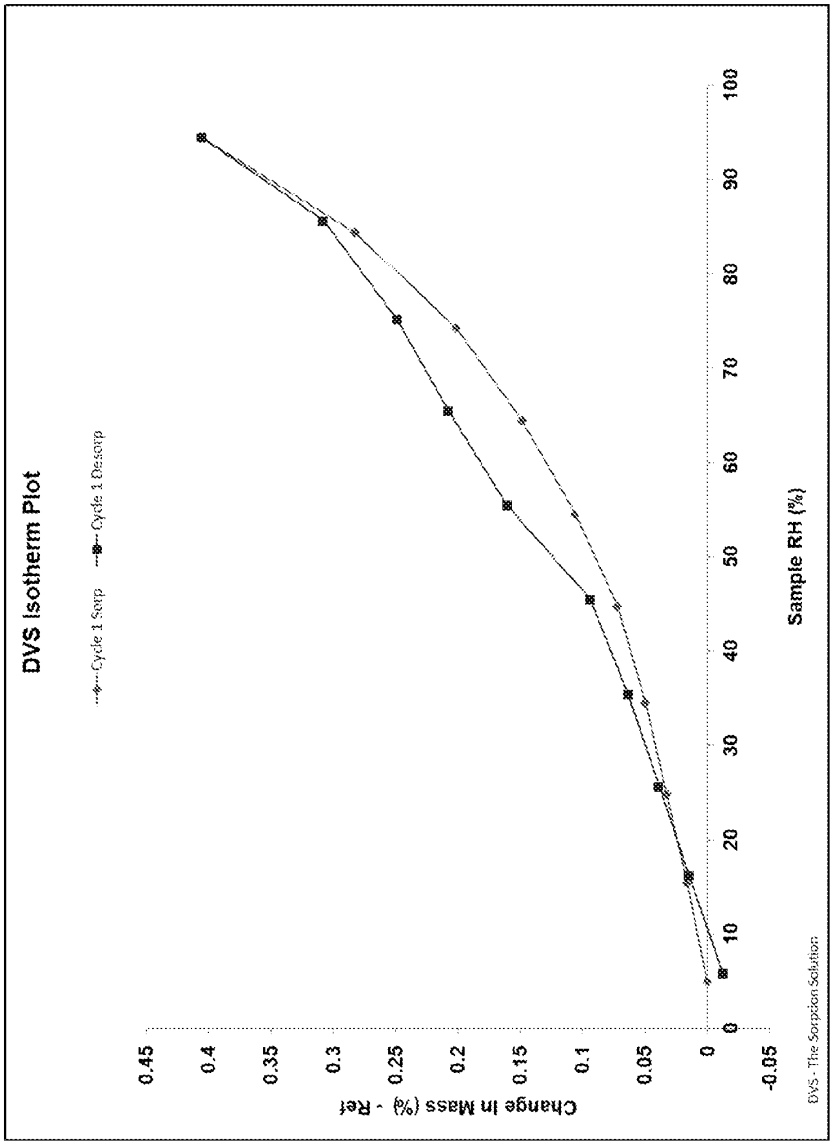

DVS Isotherm Plot
Cycle 1 Sorp
Cycle 1 Desorp
Change in Mass (%) - Ref
Sample RH (%)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
0
10
20
30
40
50
60
70
80
90
100
DVS - The Sorption Solution

FIG. 6

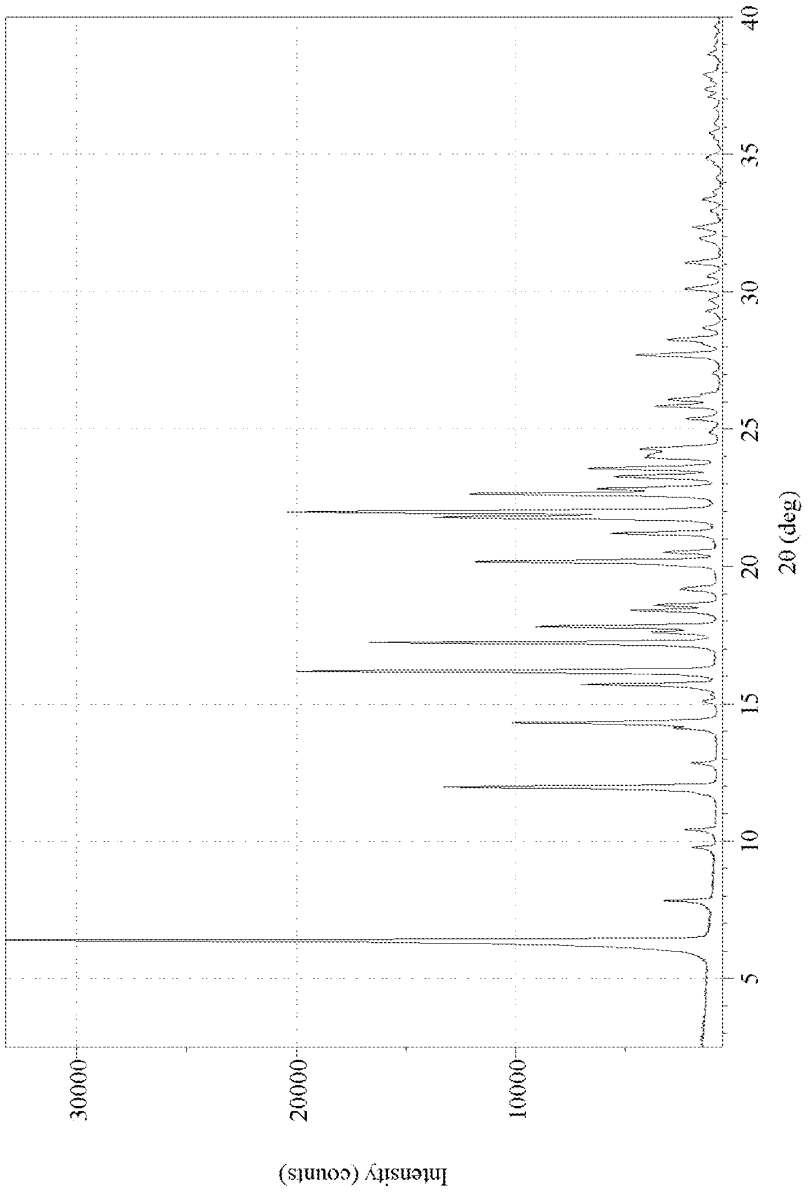

Intensity (counts)
30000
20000
10000
5
10
15
20
25
30
35
40
2θ (deg)

FIG. 7

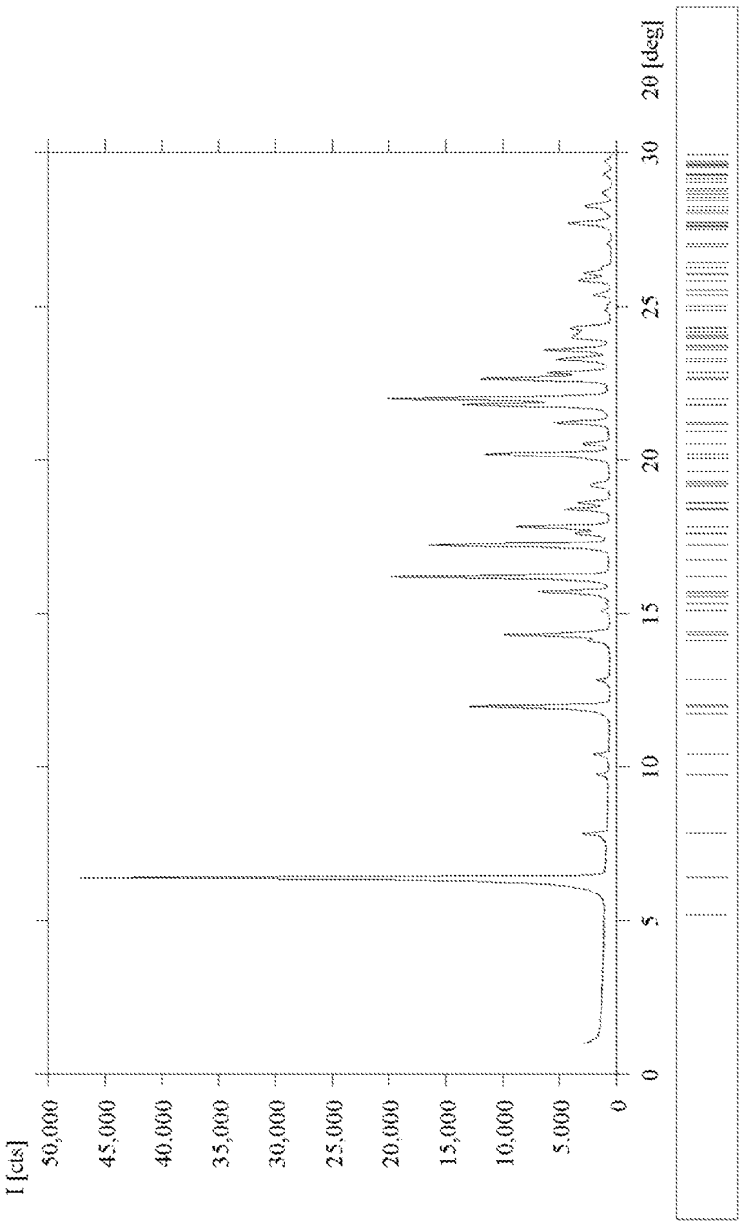

I [cts]
50,000
45,000
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
0
5
10
15
20
25
30
2θ [deg]

FIG. 8

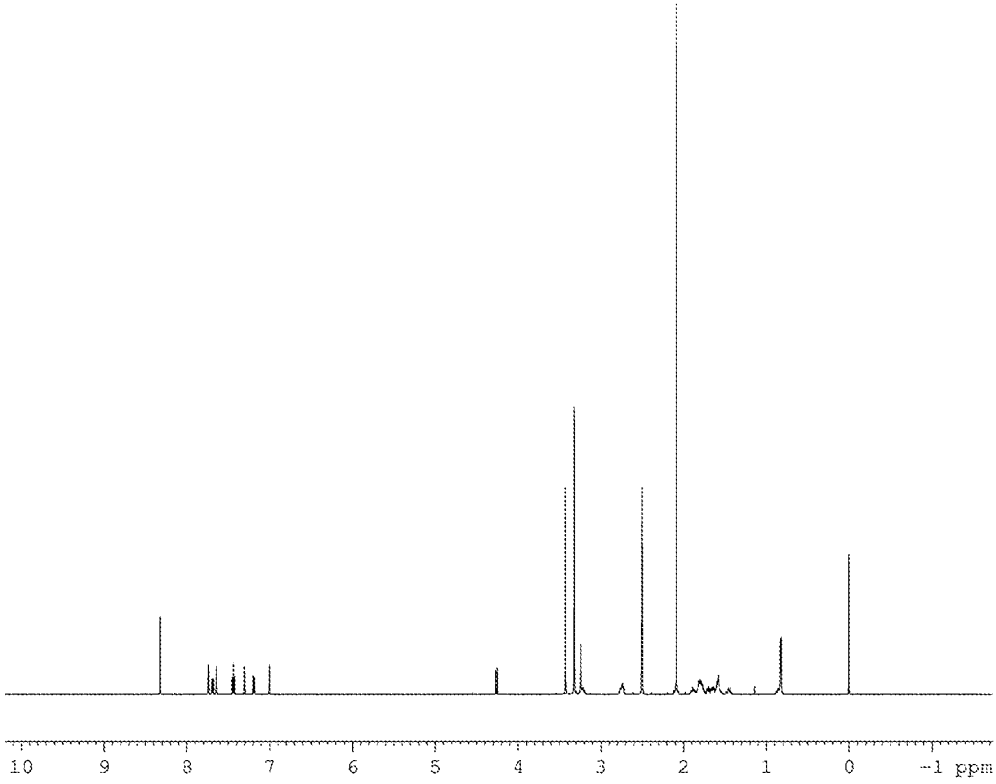


FIG. 9

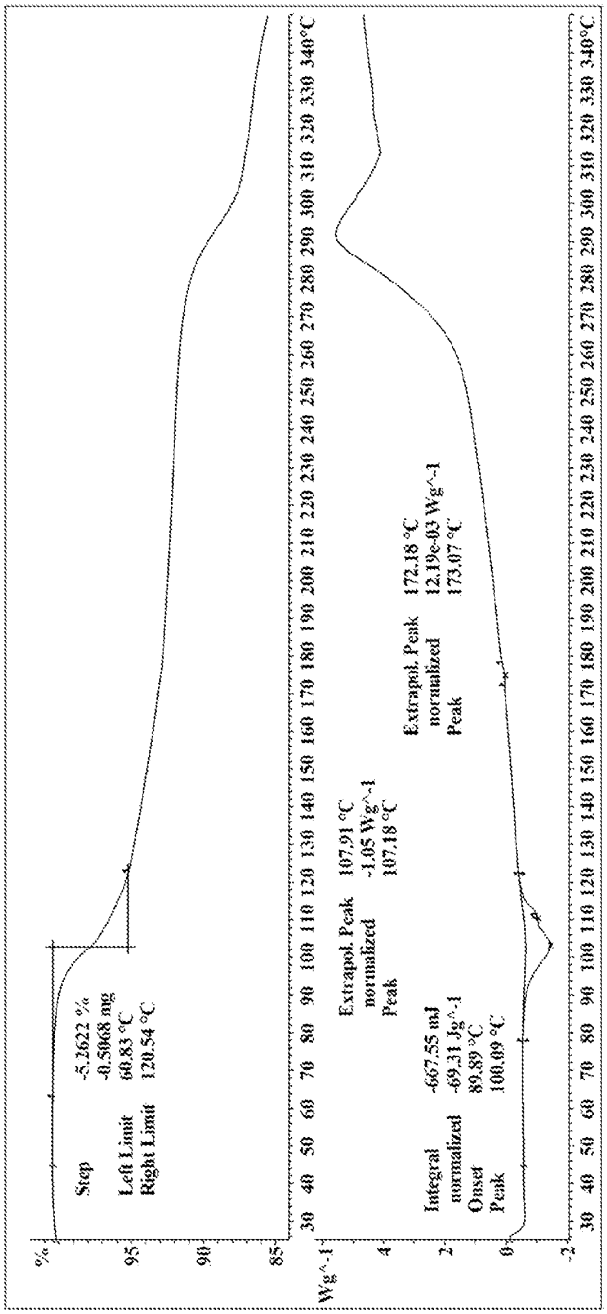

%
Wg^-1
Step -5.2622 %
-8.5868 mg
Left Limit 60.83 °C
Right Limit 120.54 °C
Extrapol. Peak 107.91 °C
normalized -1.05 Wg^-1
Peak 107.18 °C
Integral -667.55 mJ
normalized -69.31 Jg^-1
Onset 89.89 °C
Peak 100.09 °C
Extrapol. Peak 172.18 °C
normalized 12.19e-03 Wg^-1
Peak 173.07 °C
30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340°C

FIG. 10

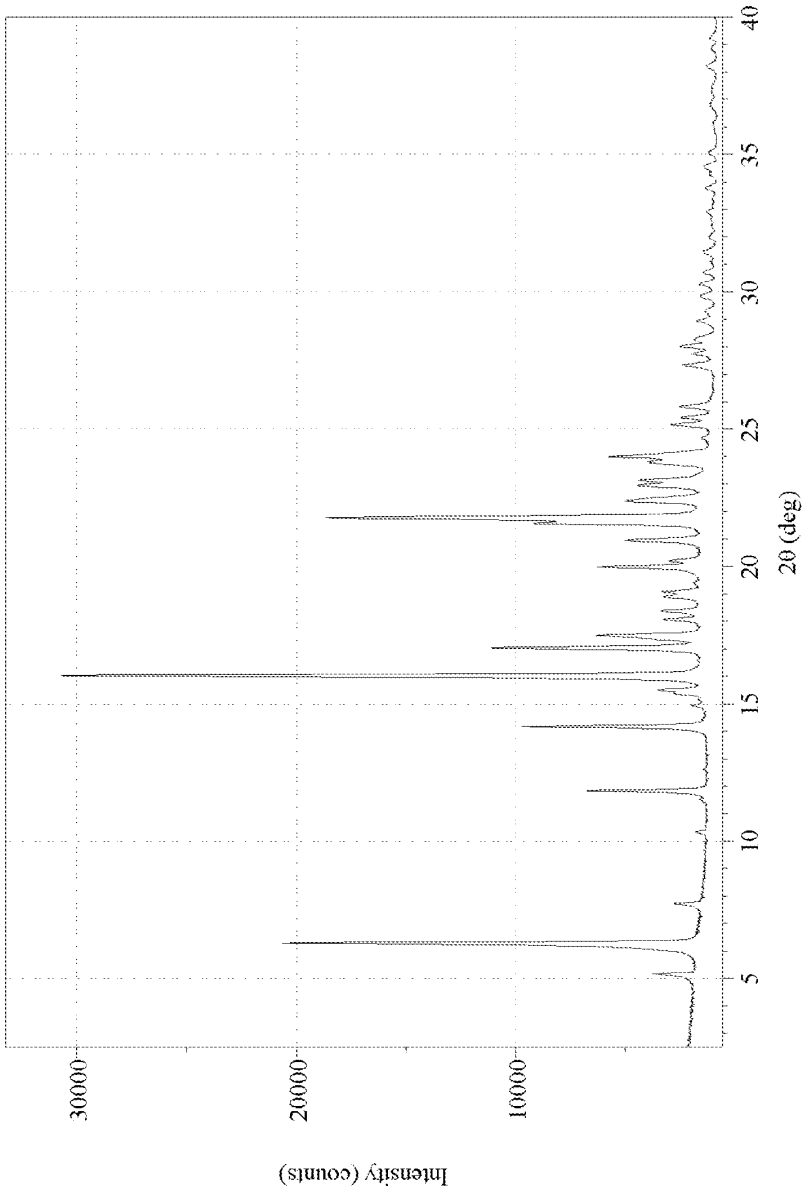

Intensity (counts)
30000
20000
10000
5
10
15
20
25
30
35
40
2θ (deg)

FIG. 11

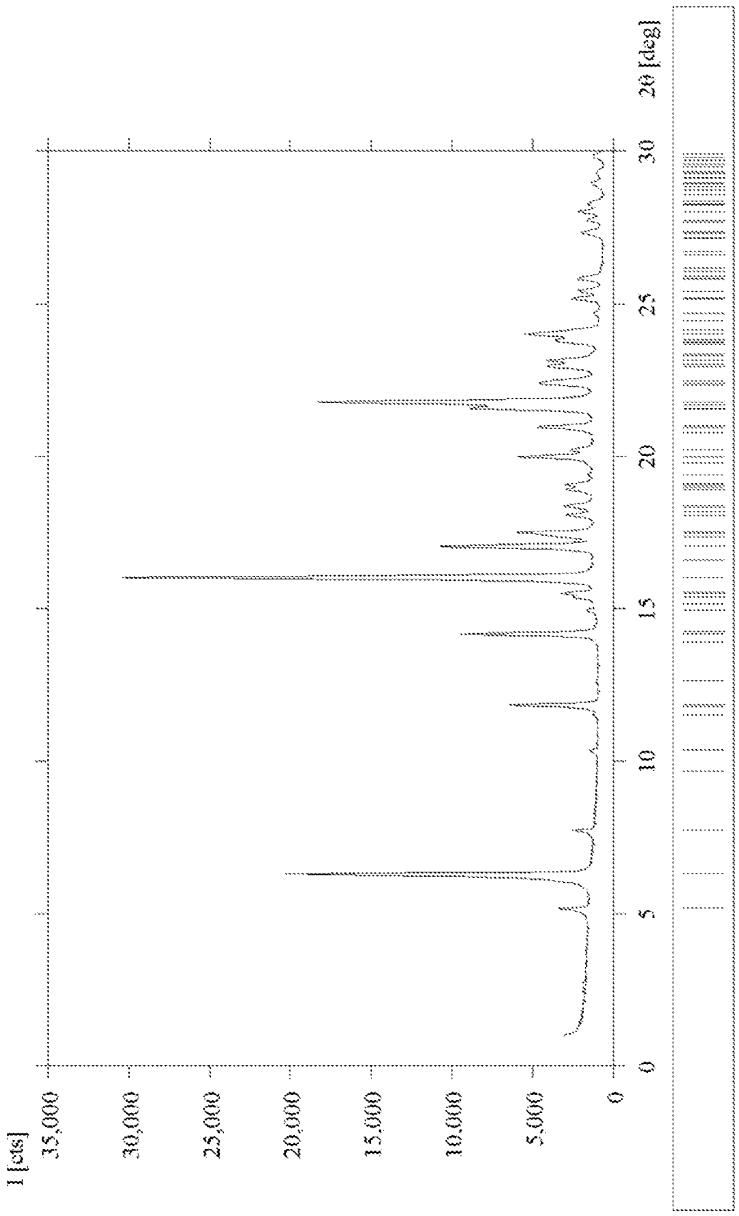

I [cts]
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
0
5
10
15
20
25
30
2θ [deg]

FIG. 12

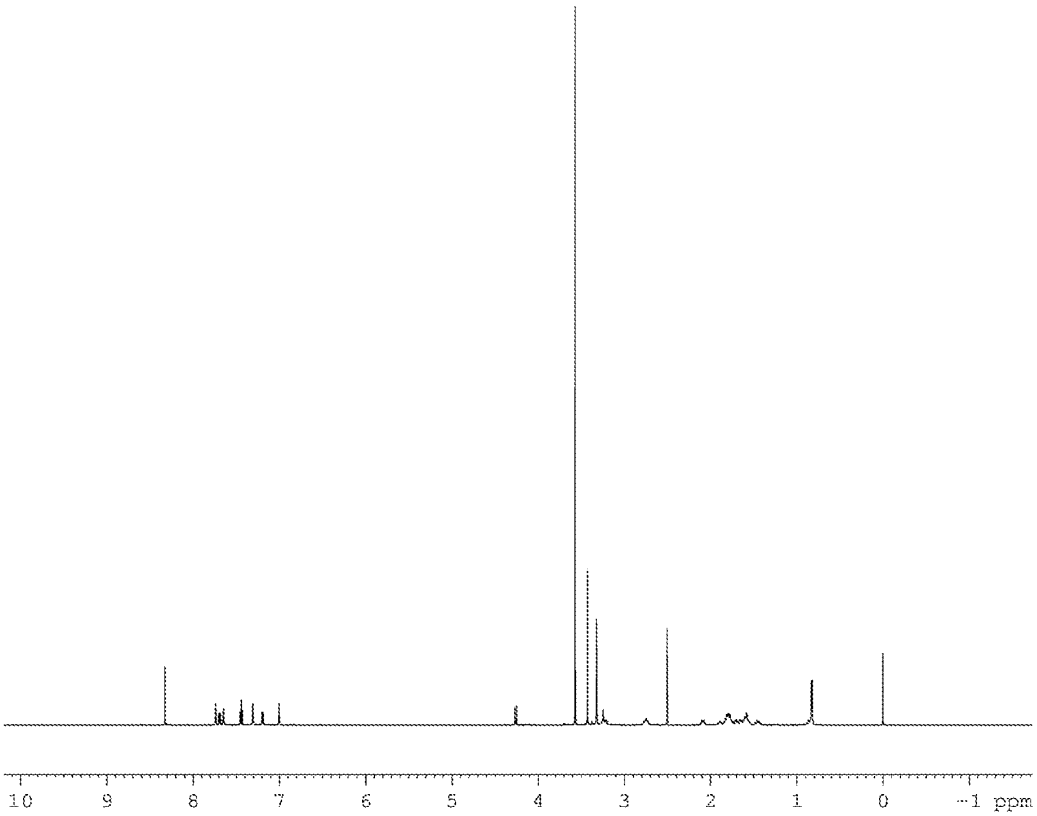


FIG. 13

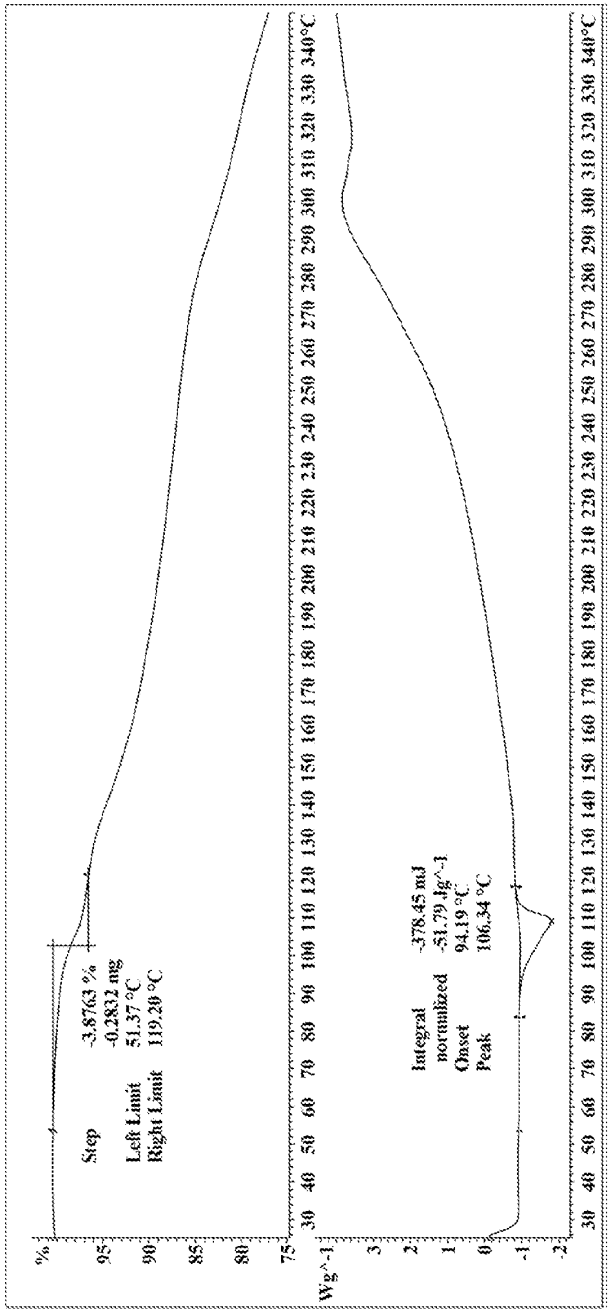

%
Wg^-1
°C
Step -3.8763 %
-0.2832 mg
Left Limit 51.37 °C
Right Limit 119.20 °C
Integral -378.45 mJ
normalized -51.79 Jg^-1
Onset 94.19 °C
Peak 106.34 °C

FIG. 14

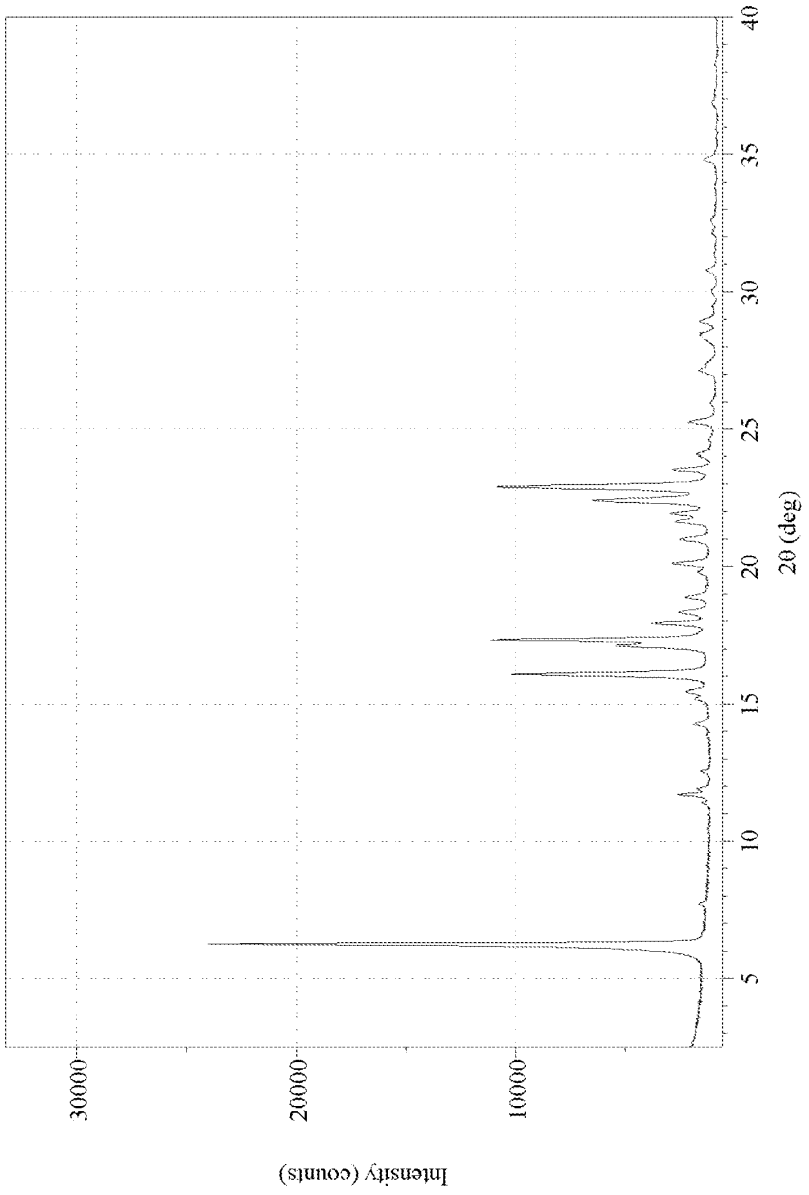

Intensity (counts)
30000
20000
10000
5
10
15
20
25
30
35
40
2θ (deg)

FIG. 15

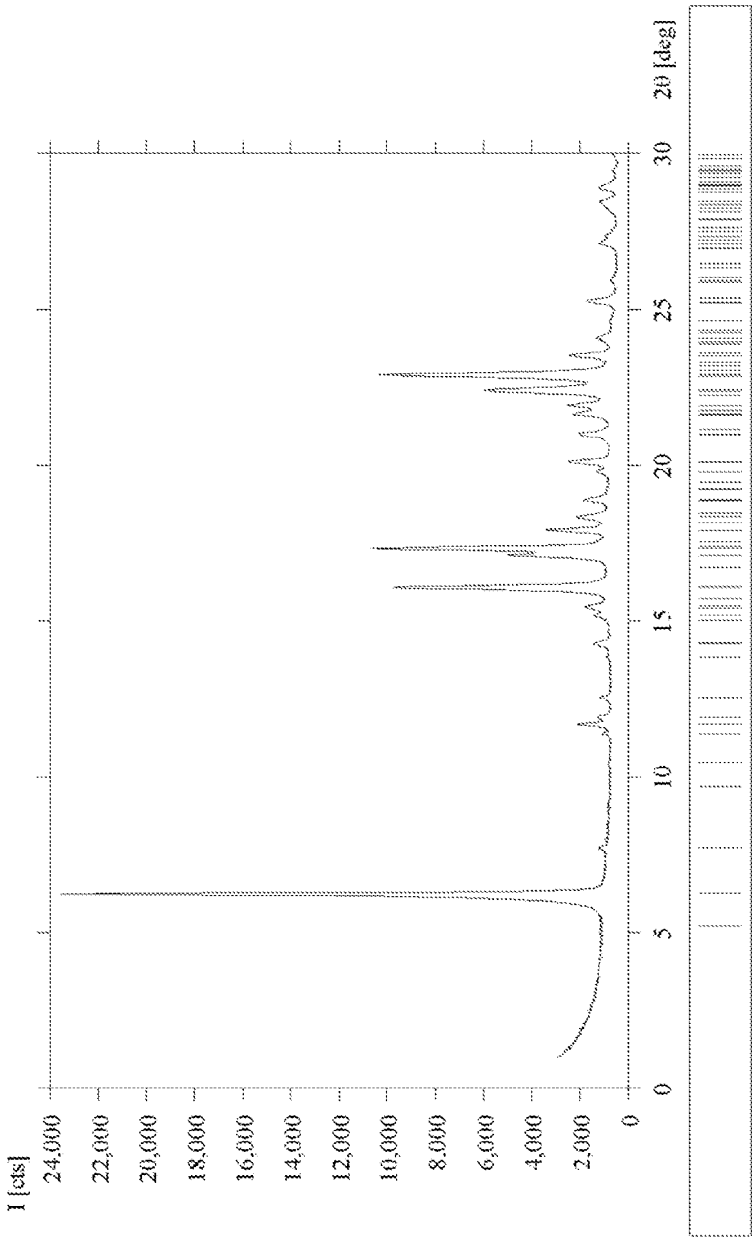

I [cts]
24,000
22,000
20,000
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
0
5
10
15
20
25
30
2θ [deg]

FIG. 16

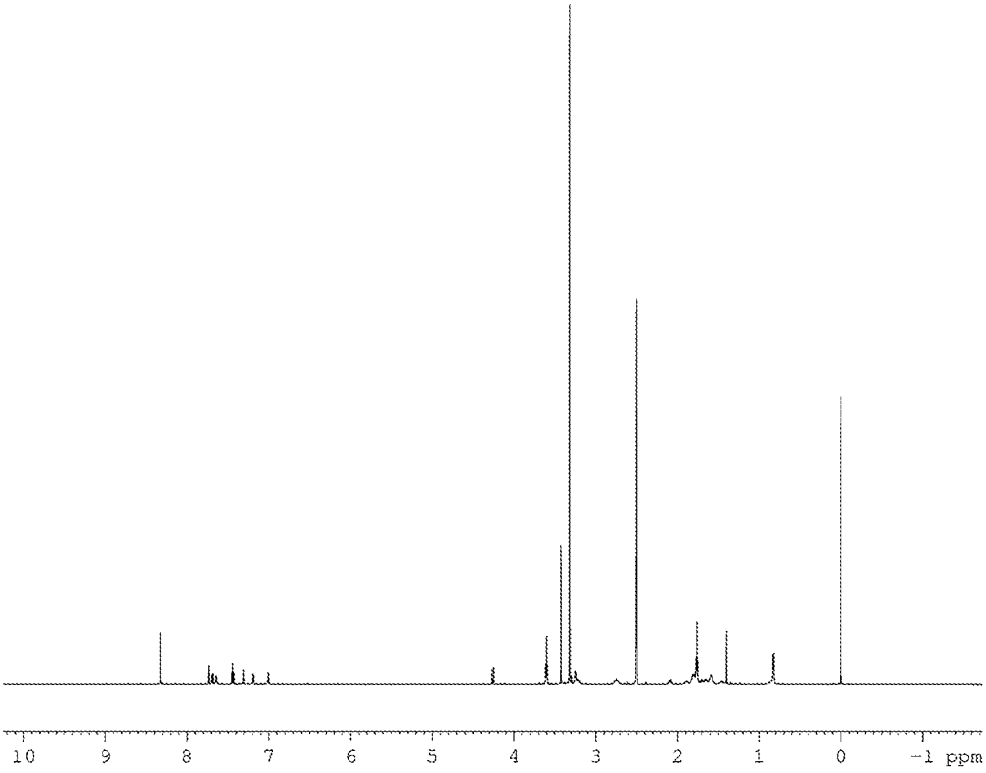


FIG. 17

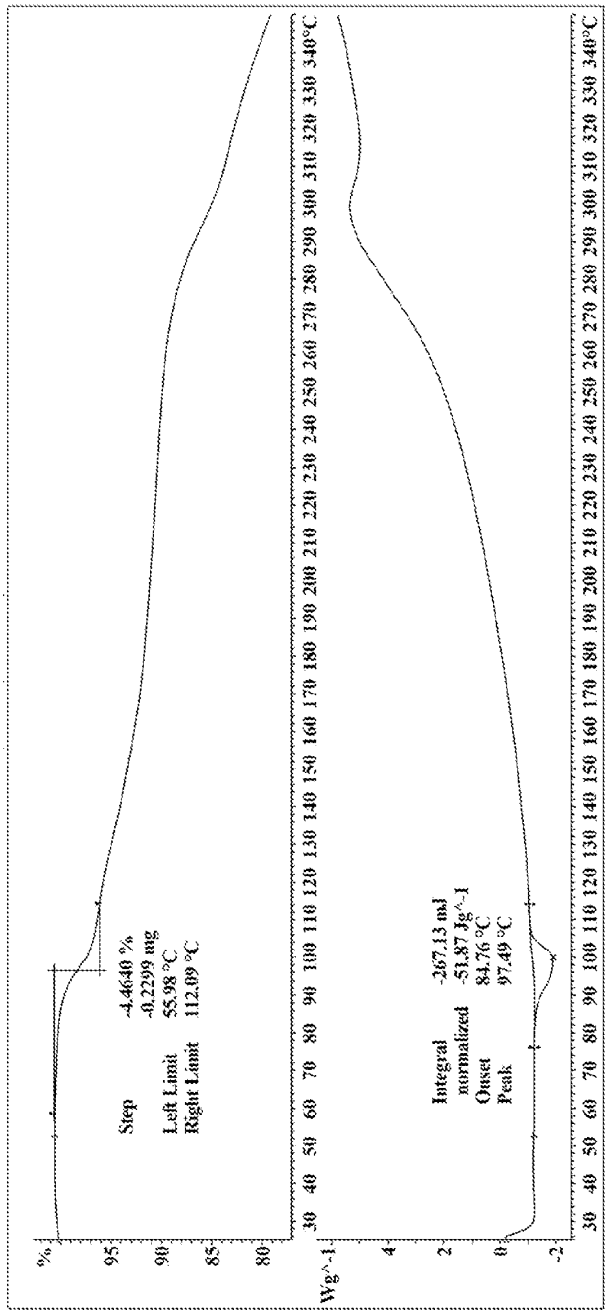

%
95
90
85
80
Step -4.4640 %
-0.2299 mg
Left Limit 55.98 °C
Right Limit 112.09 °C
Wg^-1
4
2
0
-2
Integral -267.13 mJ
normalized -51.87 Jg^-1
Onset 84.76 °C
Peak 97.49 °C
30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340°C

FIG. 18

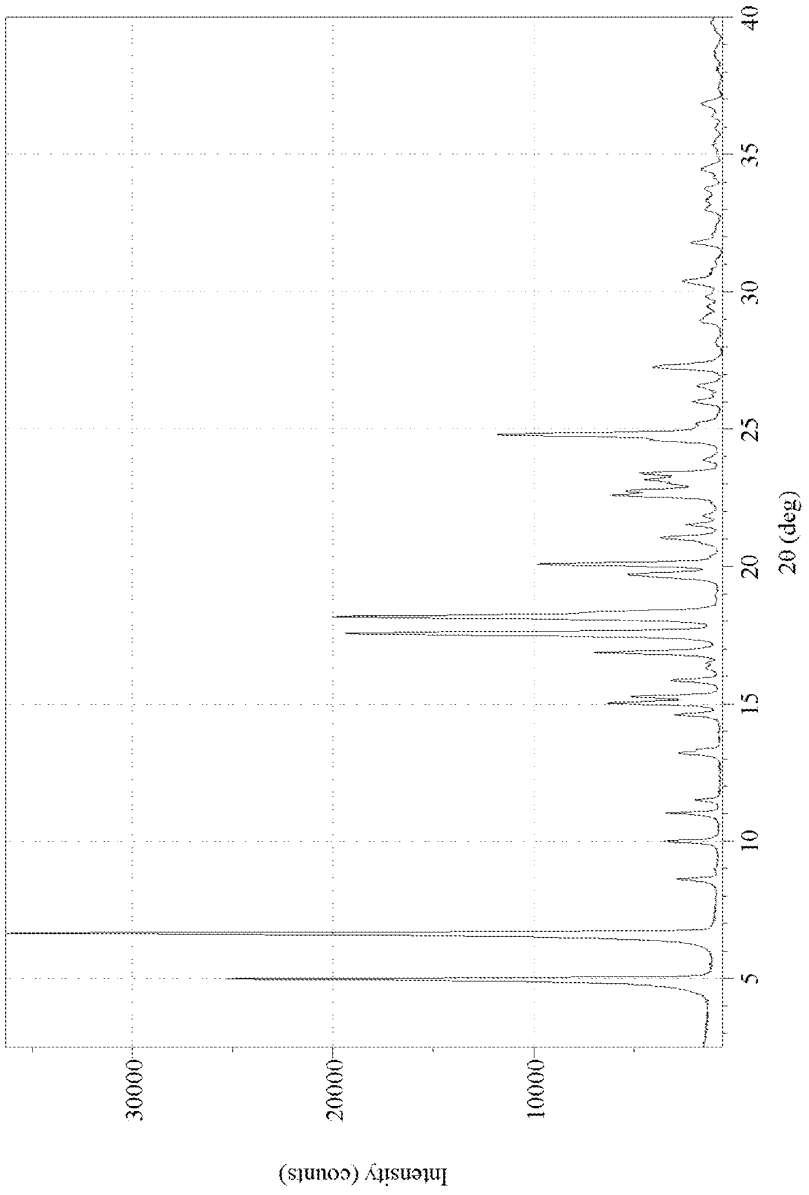

Intensity (counts)
30000
20000
10000
5
10
15
20
25
30
35
40
2θ (deg)

FIG. 19

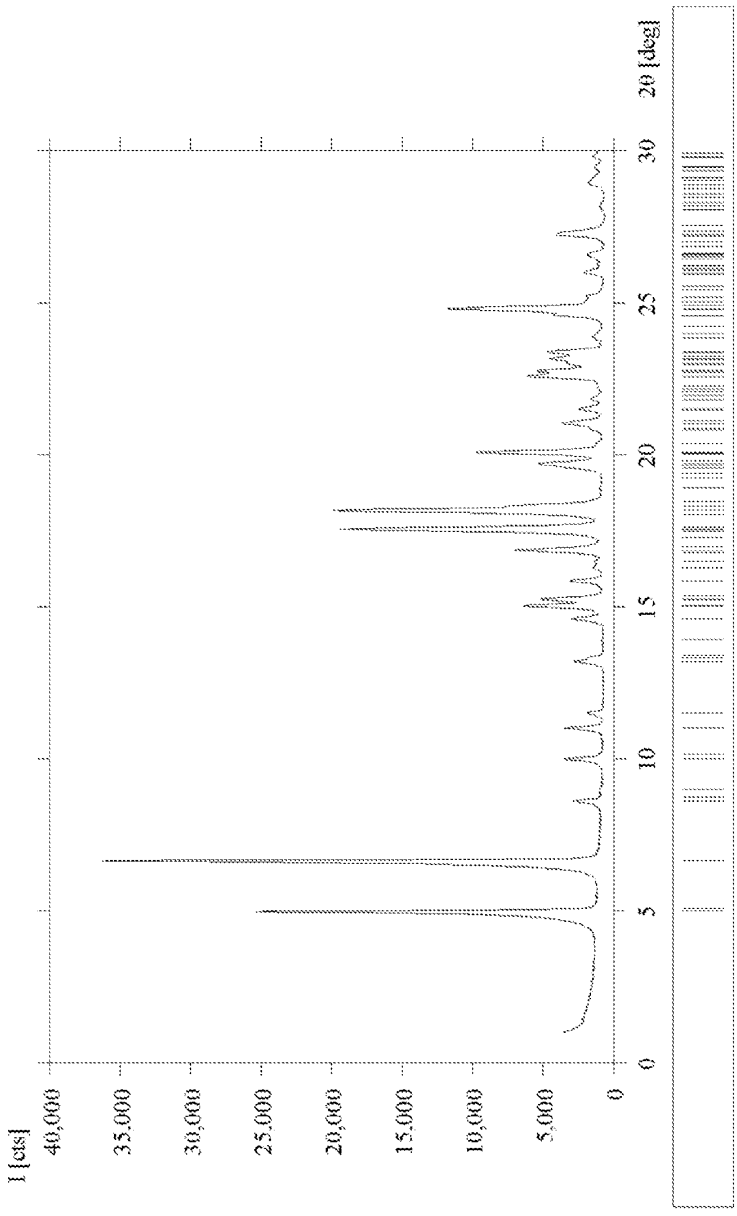

I [cts]
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
0
5
10
15
20
25
30
2θ [deg]

FIG. 20

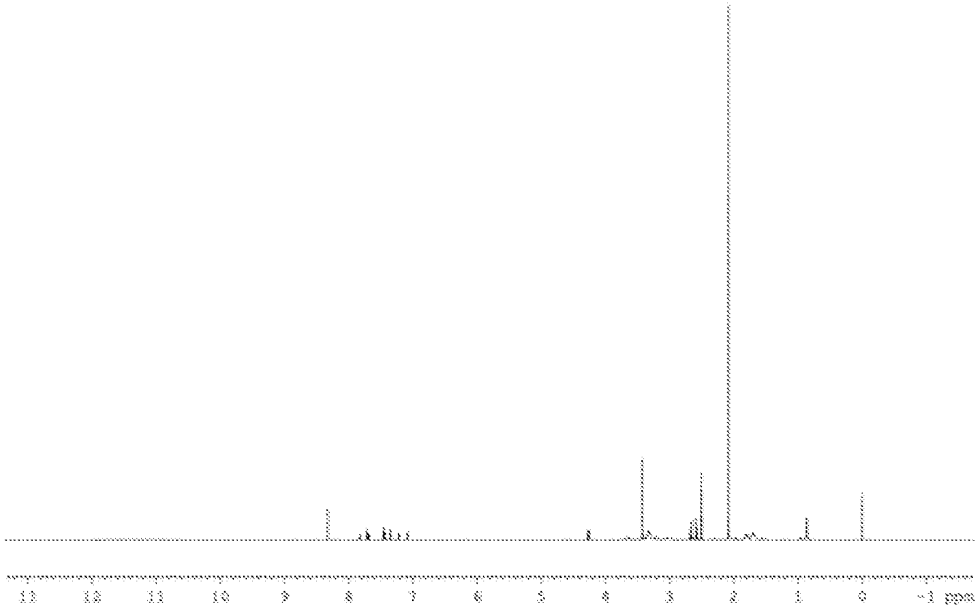


FIG. 21

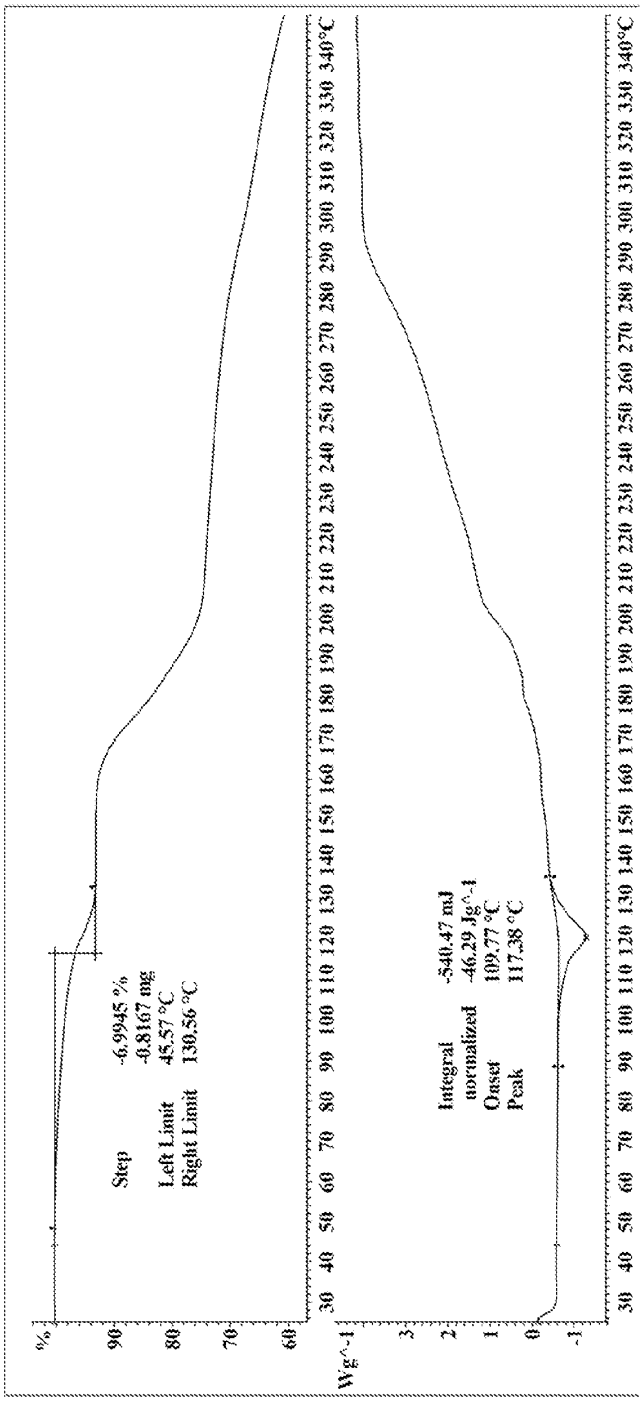

%
Wg^-1
Step
-6.9945 %
-9.8167 mg
Left Limit
45.57 °C
Right Limit
130.56 °C
Integral
-540.47 mJ
normalized
-46.29 Jg^-1
Onset
109.77 °C
Peak
117.38 °C
30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340°C

FIG. 22

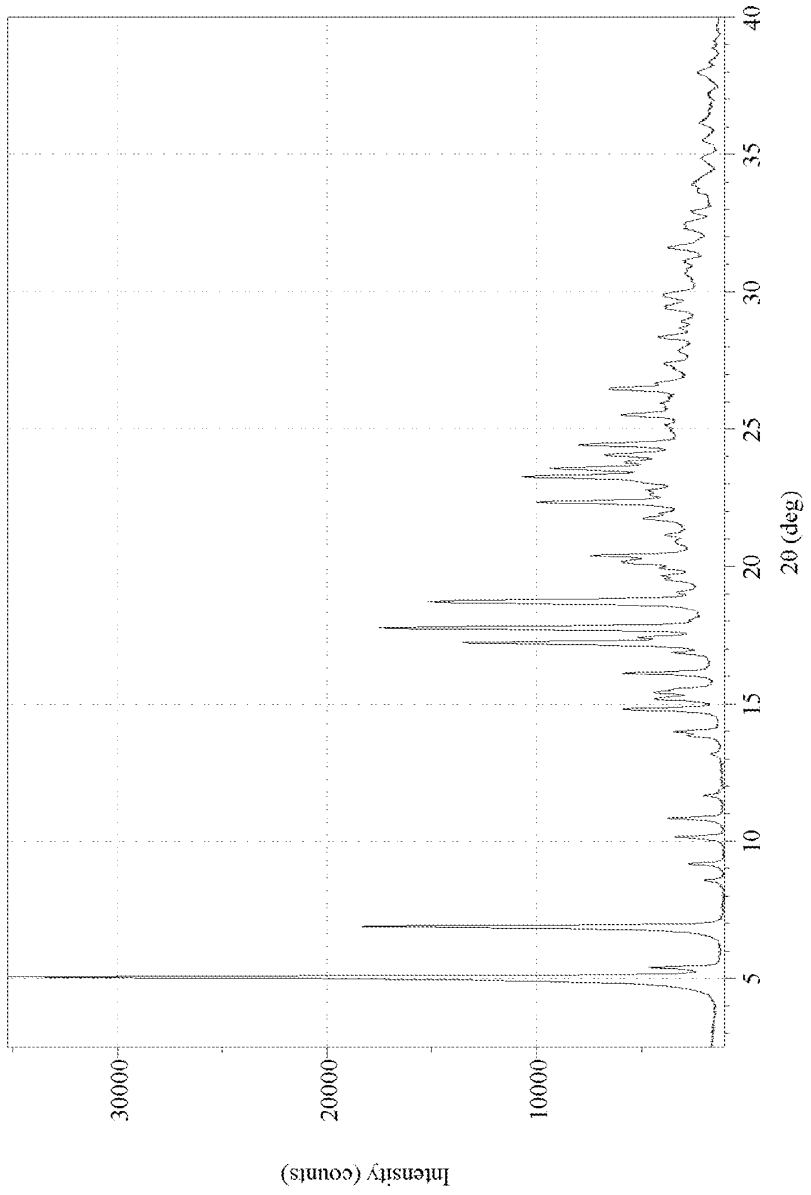

Intensity (counts)
30000
20000
10000
5
10
15
20
25
30
35
40
2θ (deg)

FIG. 23

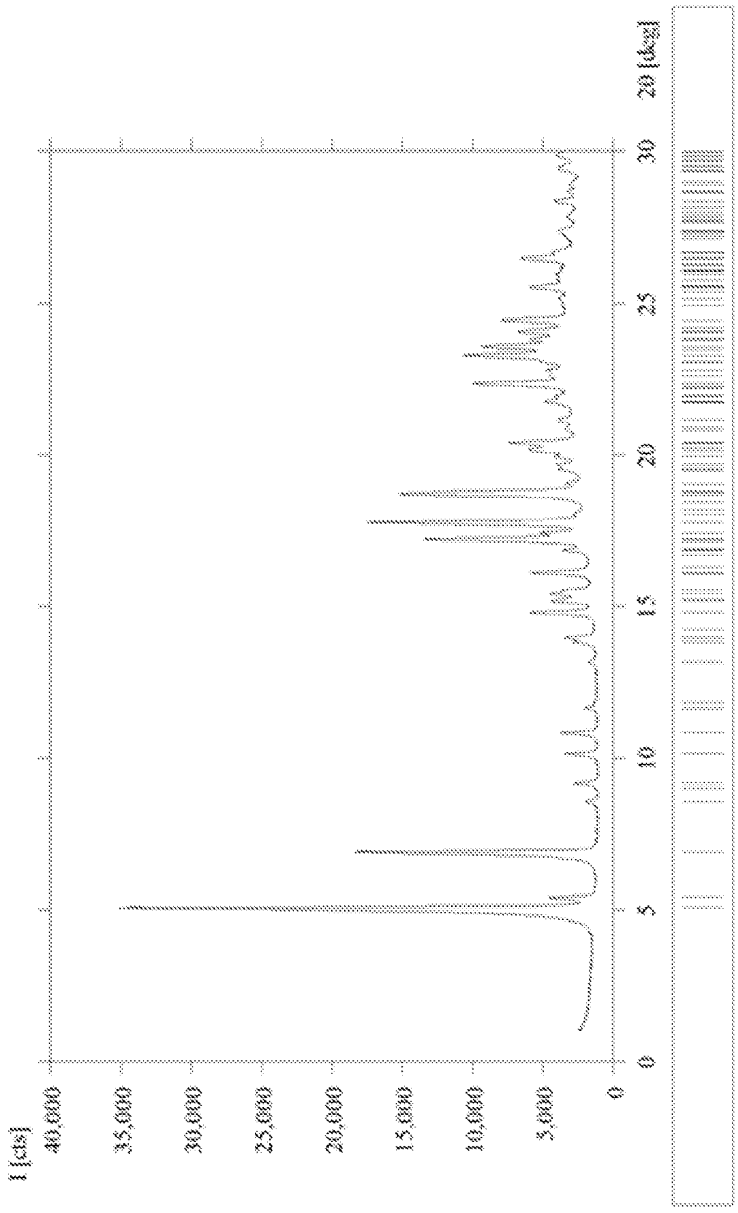

I [cts]
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
0
5
10
15
20
25
30
2θ [deg]

FIG. 24

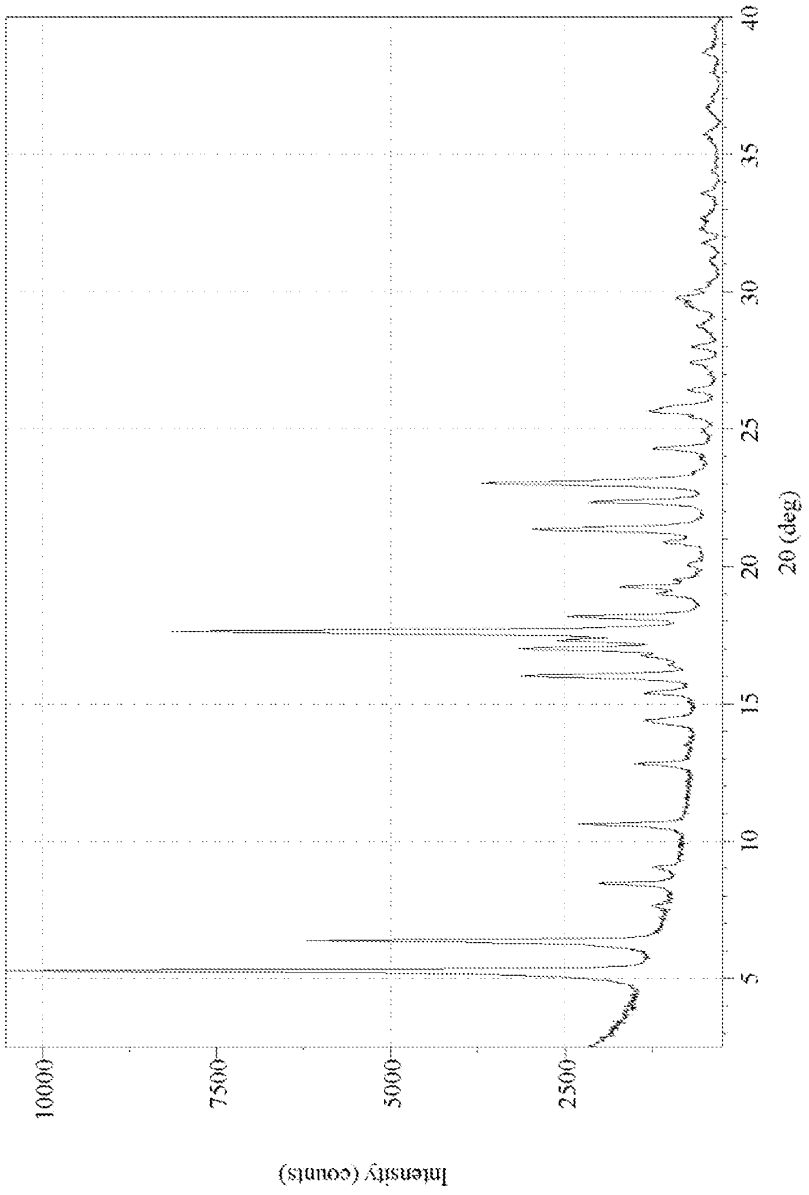

Intensity (counts)
10000
7500
5000
2500
5
10
15
20
25
30
35
40
2θ (deg)

FIG. 25

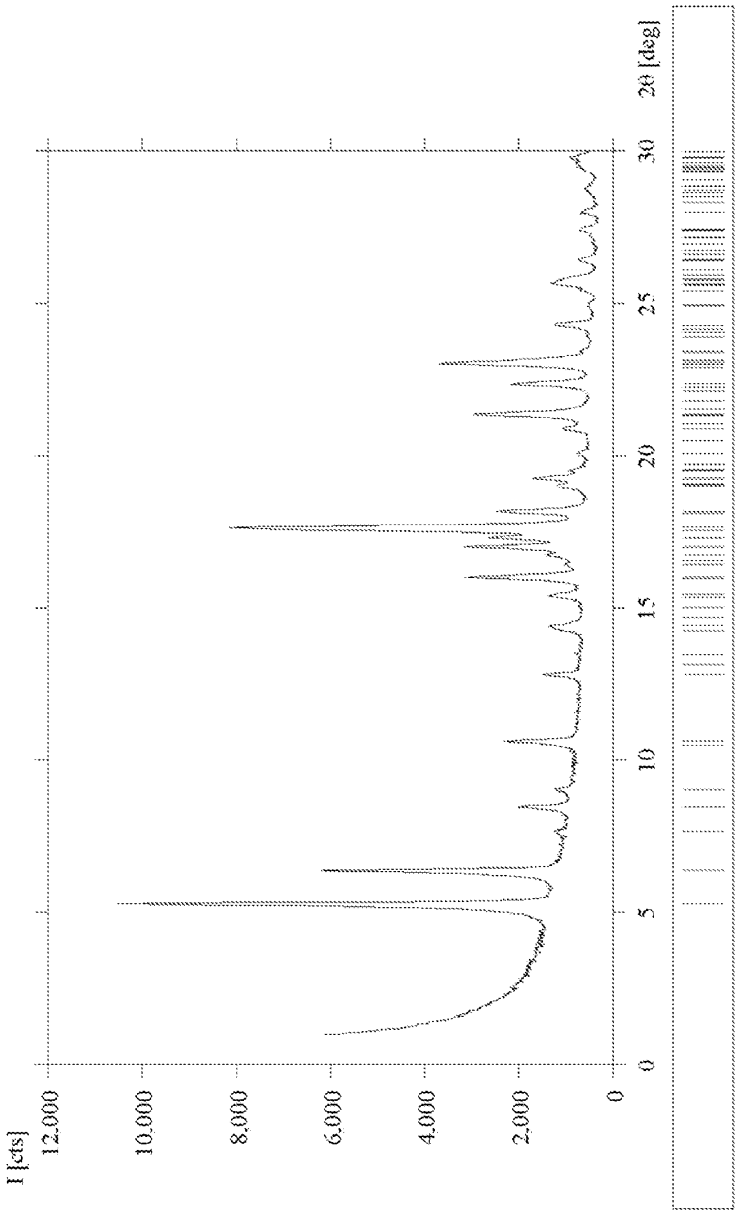


FIG. 26

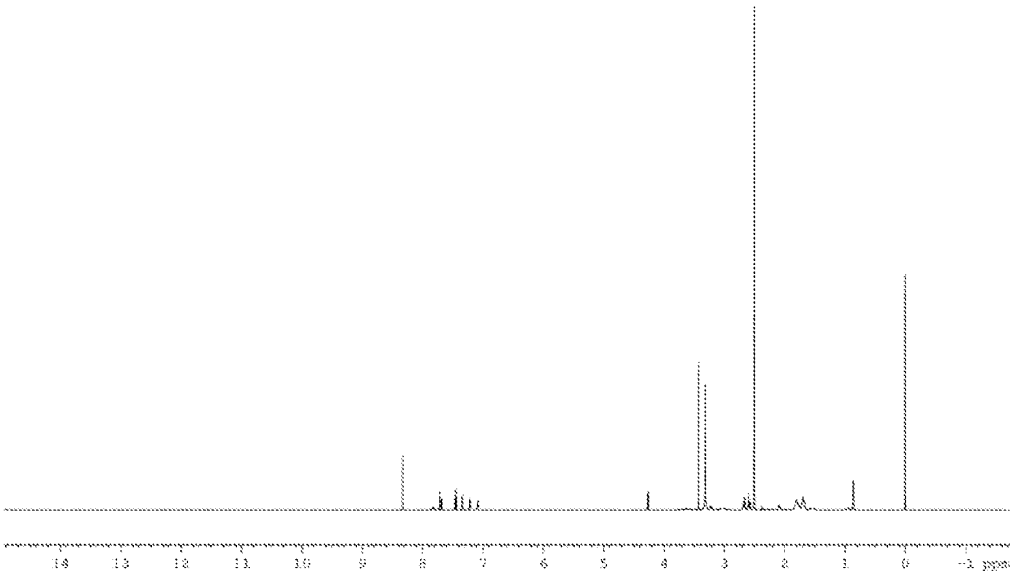


FIG. 27

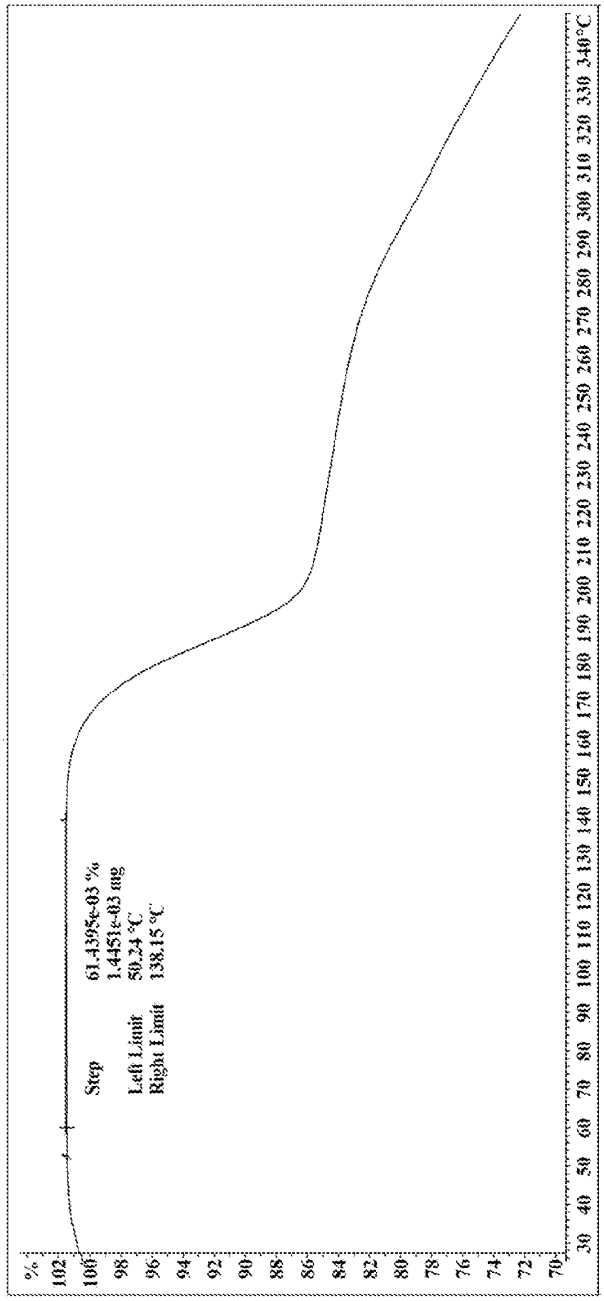

%
102
100
98
96
94
92
90
88
86
84
82
80
78
76
74
72
70
30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340°C
Step 61.4395e-03 %
1.4451e-03 mg
Left Limit 50.24 °C
Right Limit 138.15 °C

FIG. 28

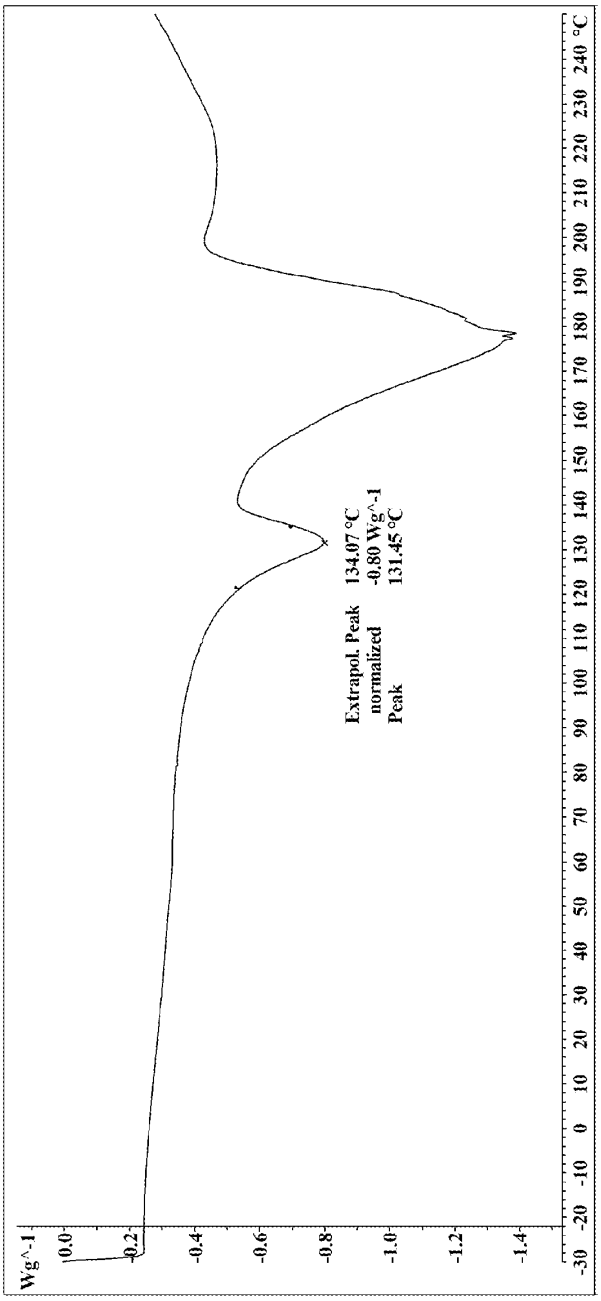

Wg^-1
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
-1.4
-30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 °C
Extrapol. Peak 134.07 °C
normalized -0.80 Wg^-1
Peak 131.45 °C

FIG. 29

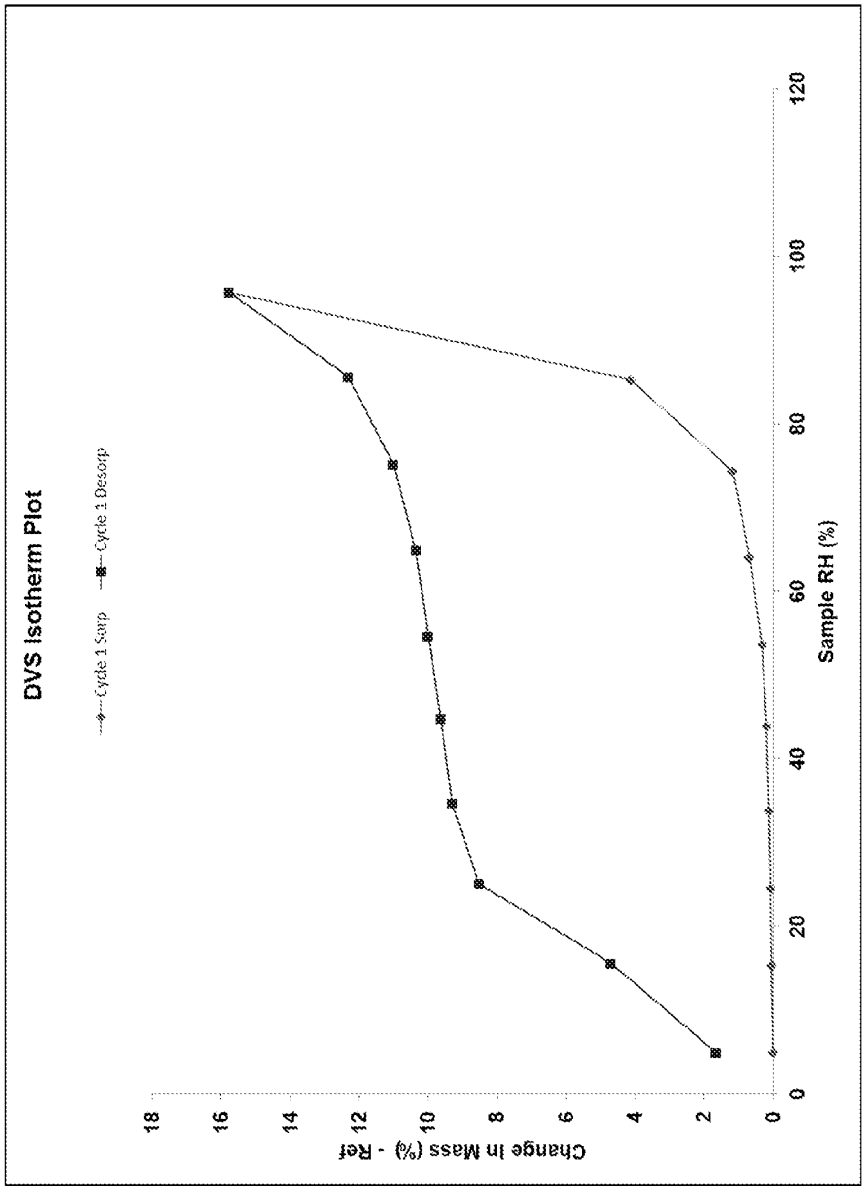

DVS Isotherm Plot
Cycle 1 Sorp
Cycle 1 Desorp
Change In Mass (%) - Ref
Sample RH (%)
0
2
4
6
8
10
12
14
16
18
0
20
40
60
80
100
120

FIG. 30

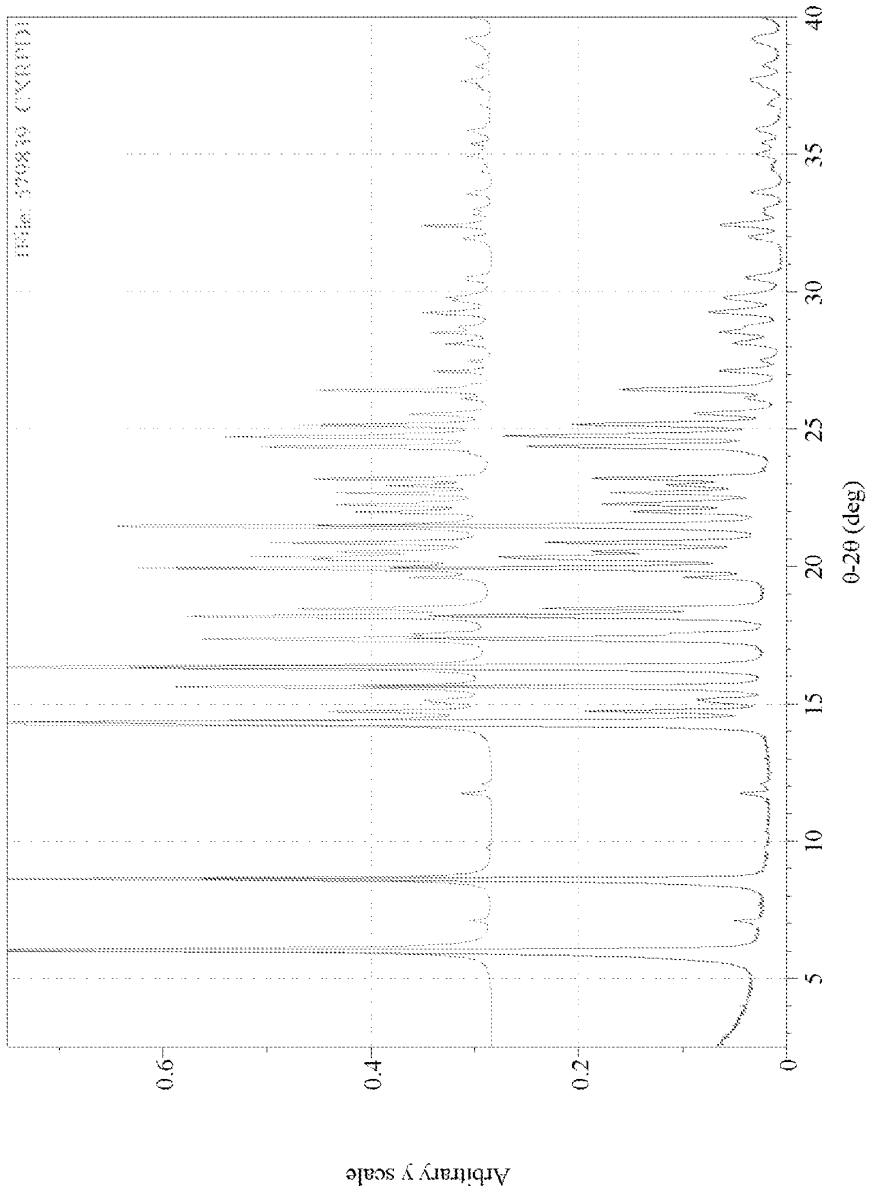


FIG. 31

