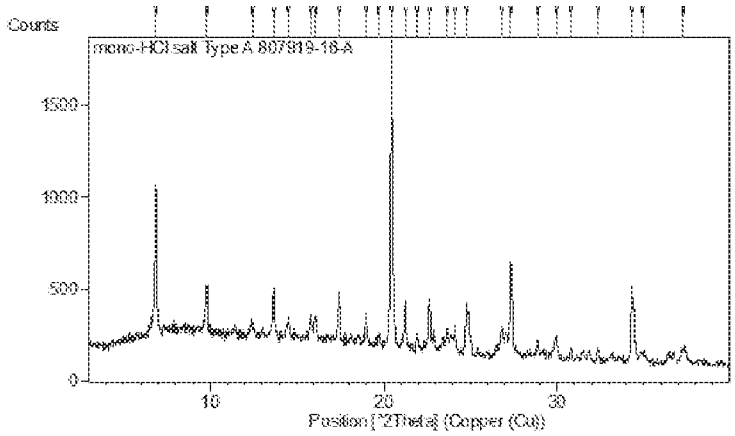


FIG. 1

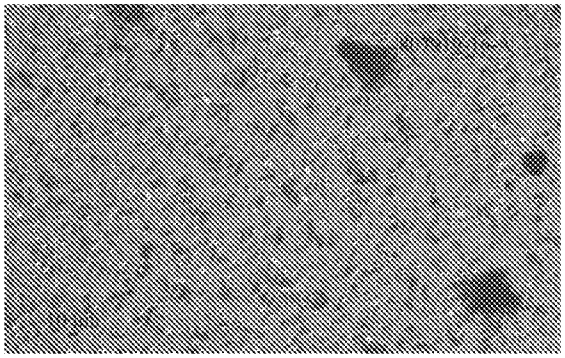


FIG. 2

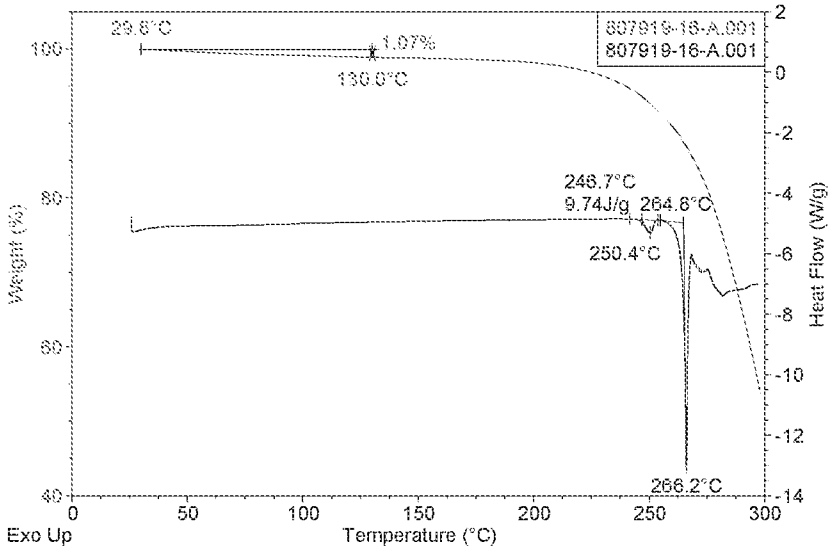


FIG. 3

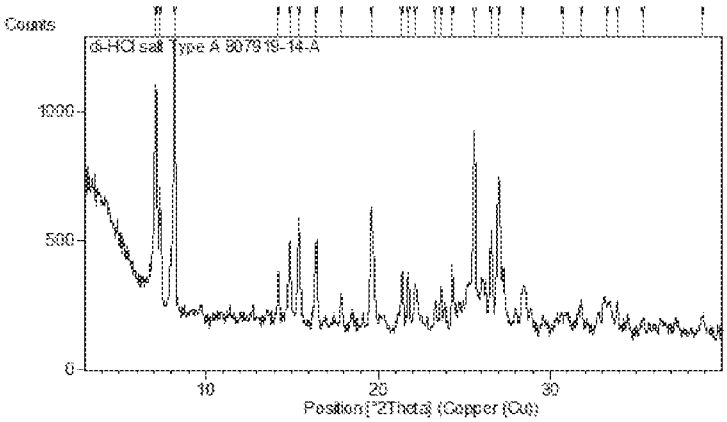


FIG. 4

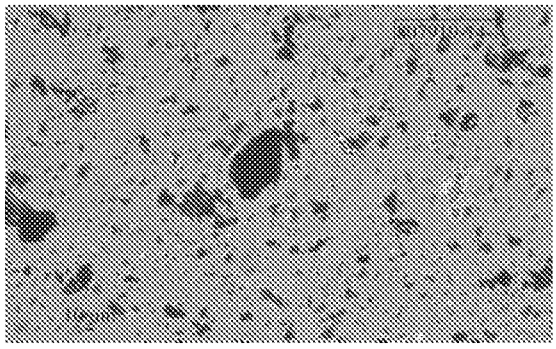


FIG. 5

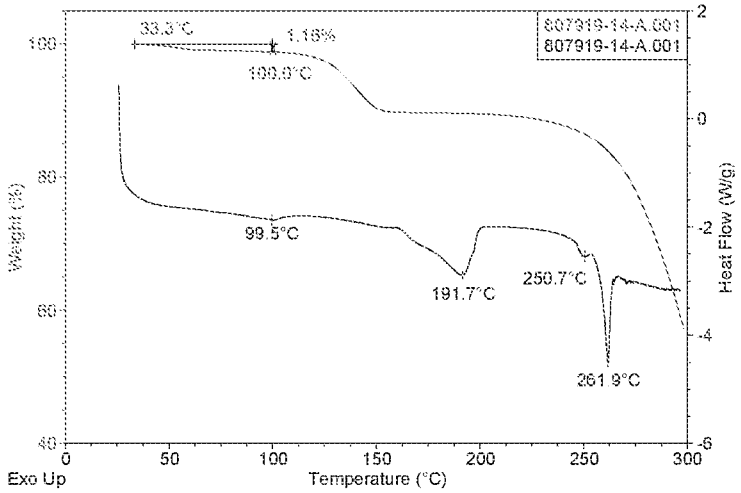


FIG. 6

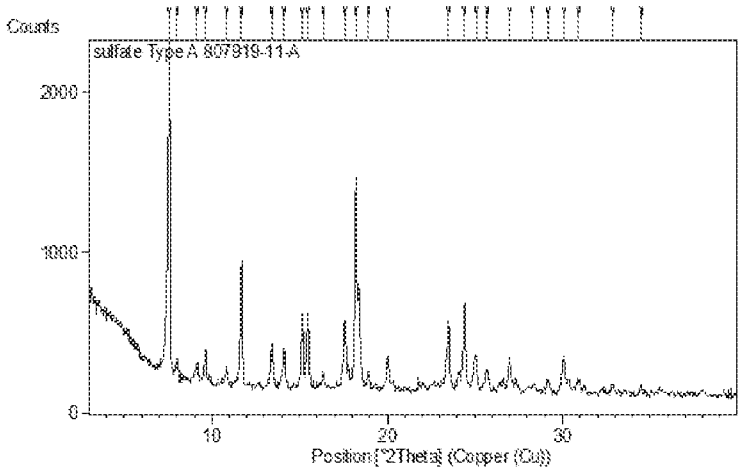


FIG. 7

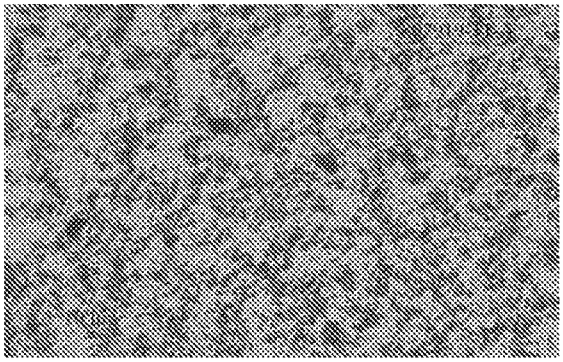


FIG. 8

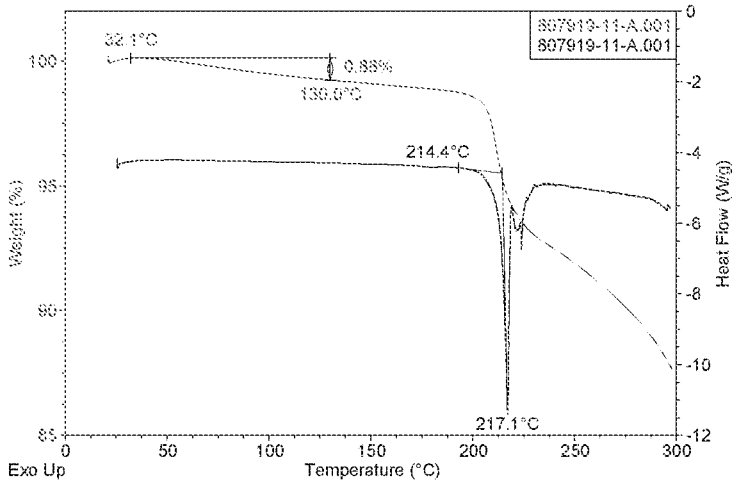


FIG. 9

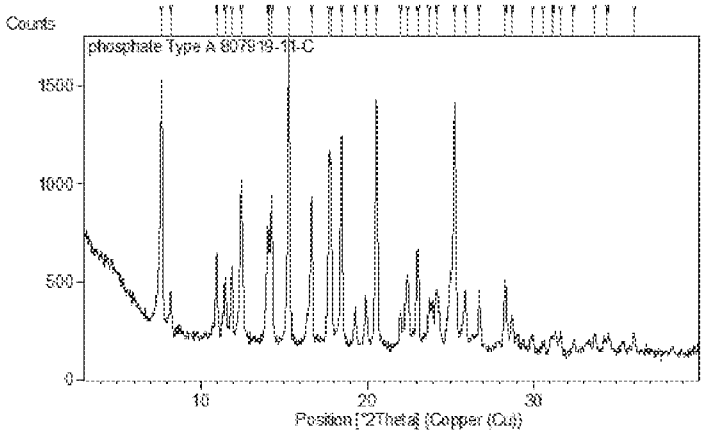


FIG. 10

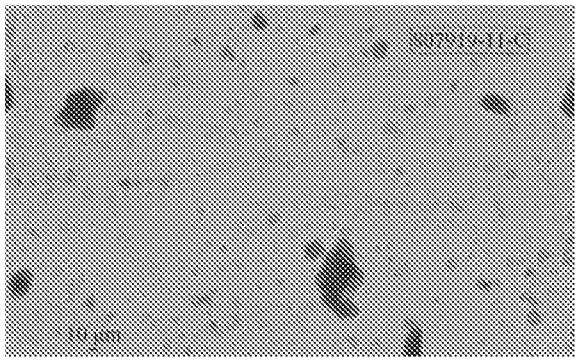


FIG. 11

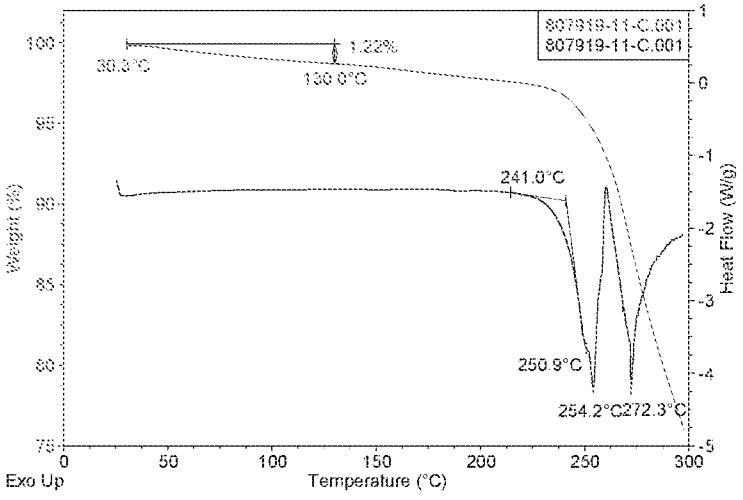


FIG. 12

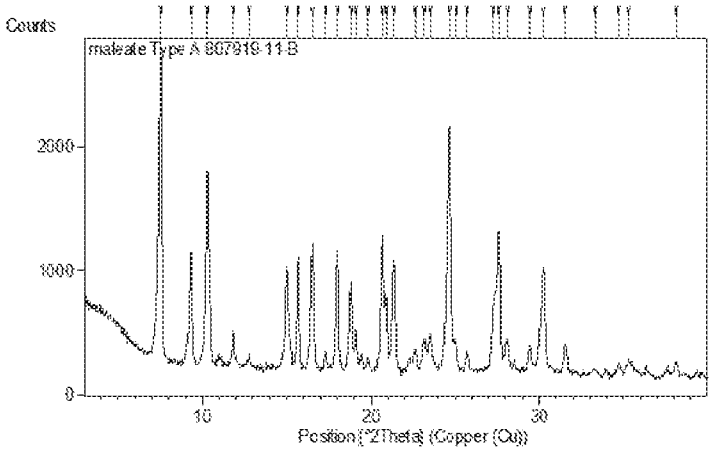


FIG. 13

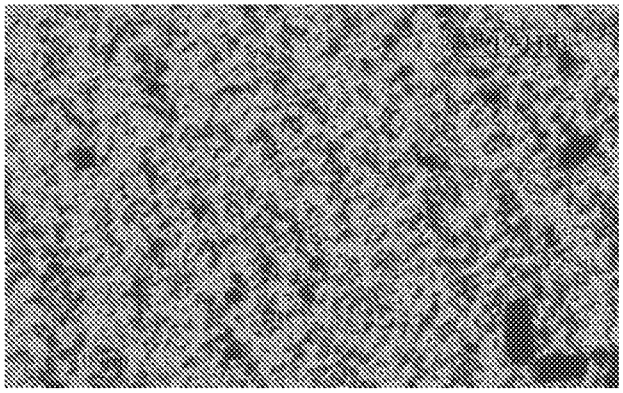


FIG. 14

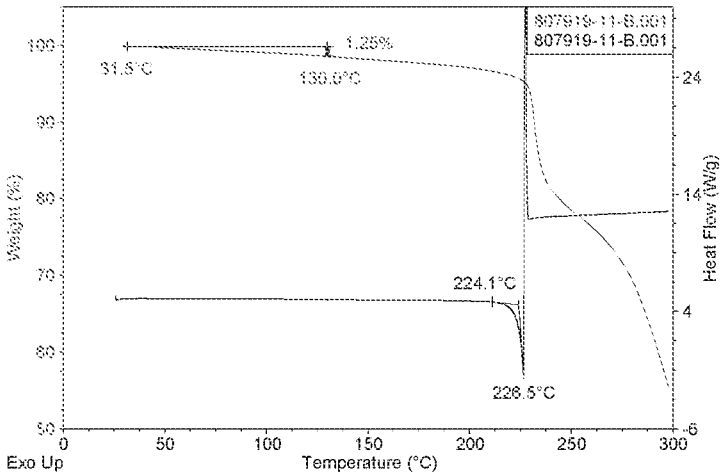


FIG. 15

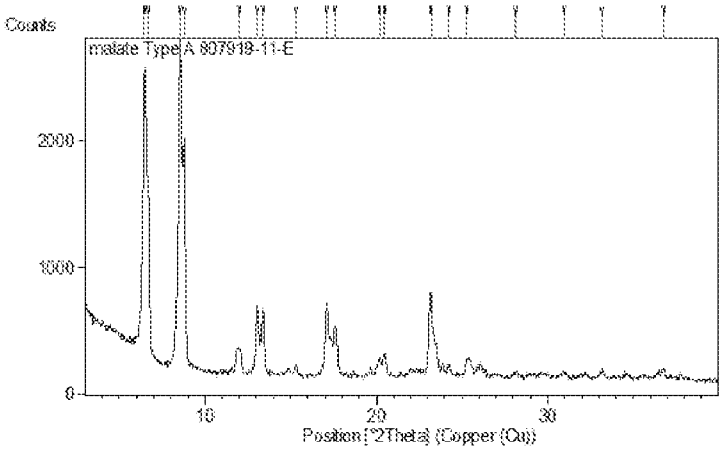


FIG. 16

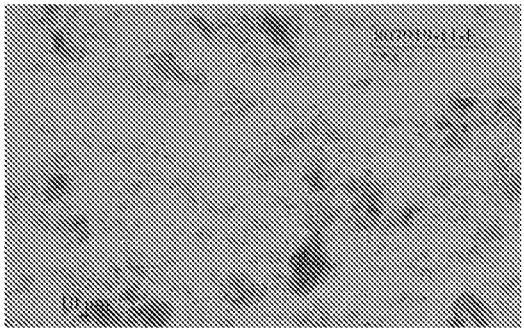


FIG. 17

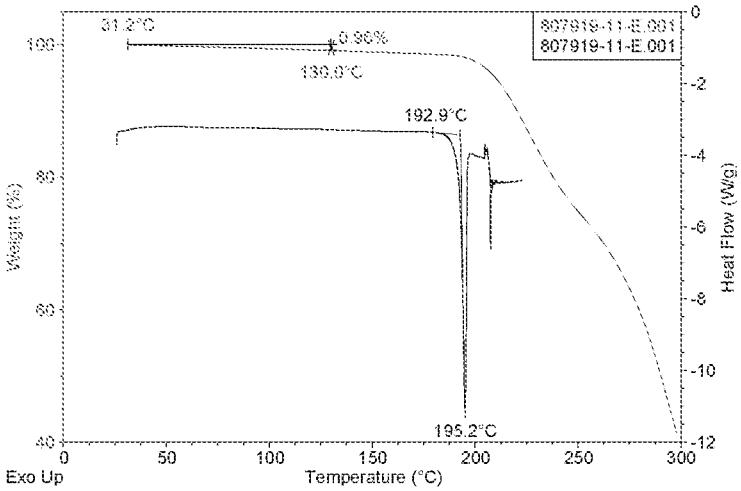


FIG. 18

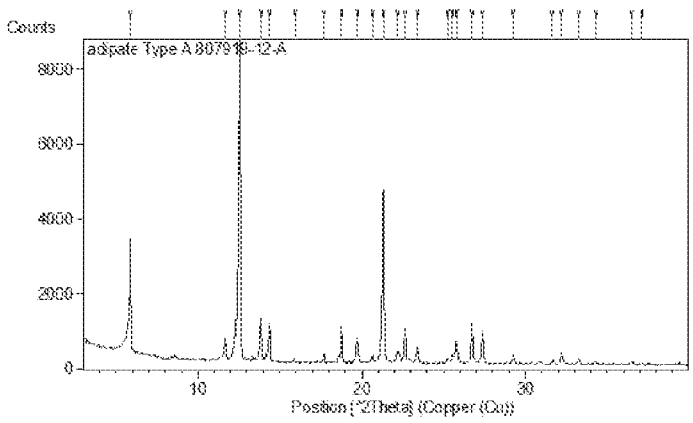


FIG. 19

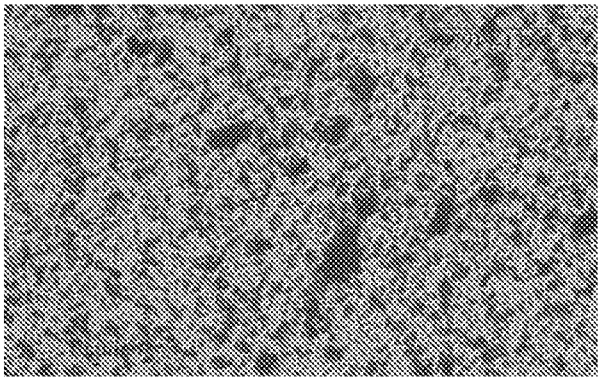


FIG. 20

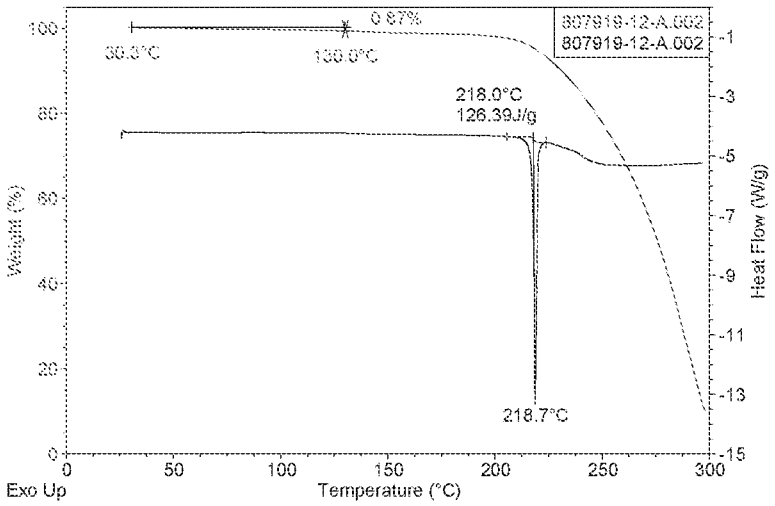


FIG. 21

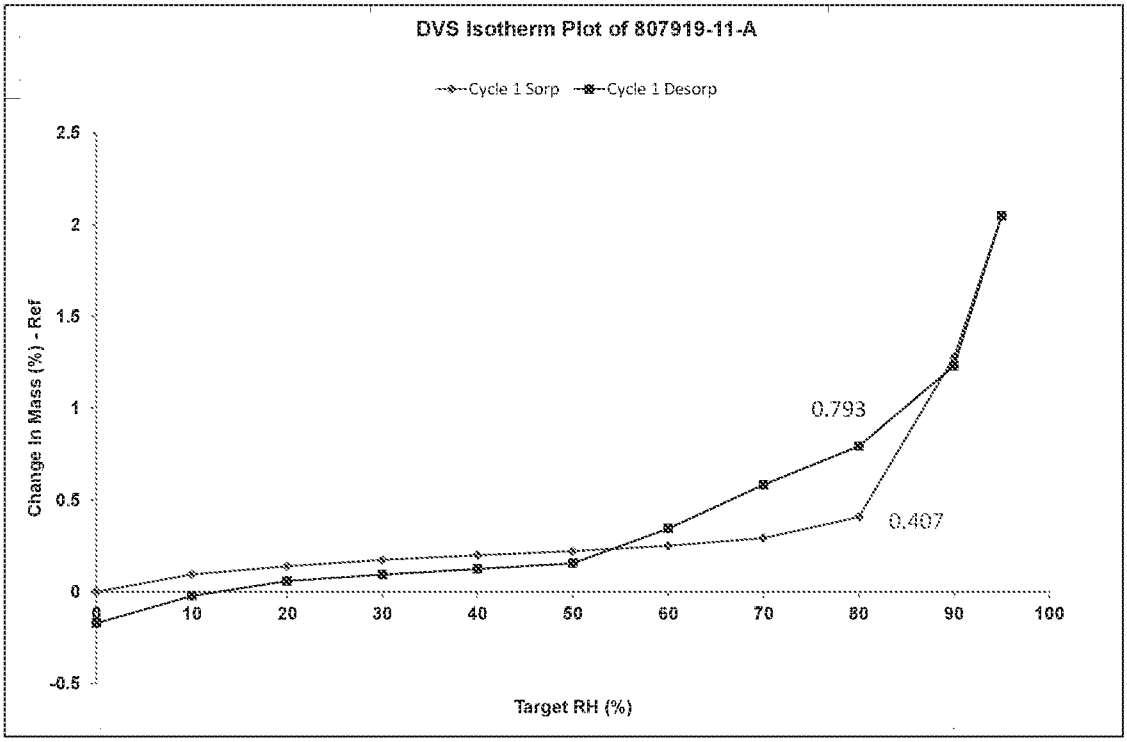

DVS Isotherm Plot of 807919-11-A
Cycle 1 Sorp
Cycle 1 Desorp
Change In Mass (%) - Ref
Target RH (%)
2.5
2
1.5
1
0.5
0
-0.5
10
20
30
40
50
60
70
80
90
100
0.793
0.407

FIG. 22

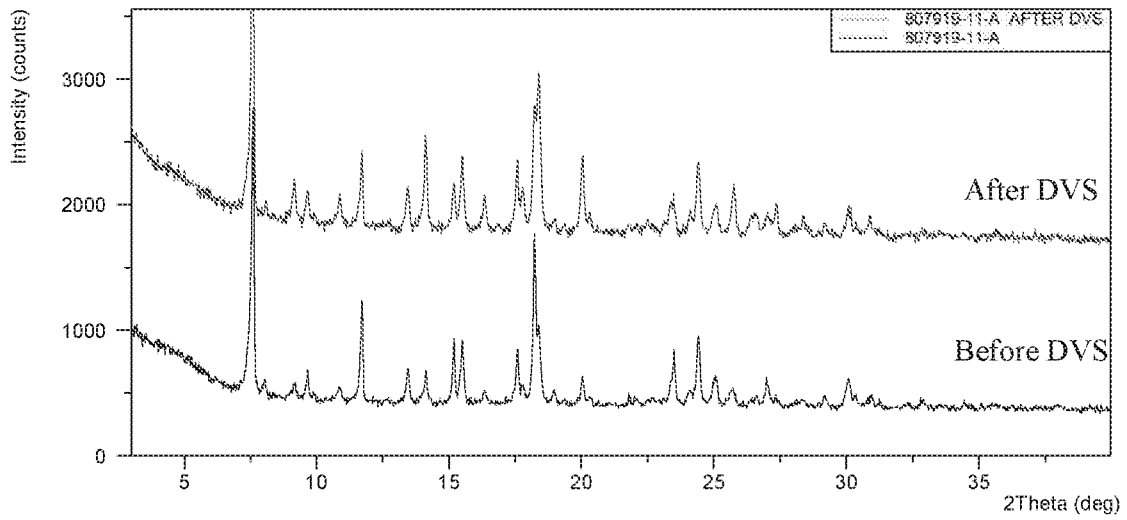

807919-11-A AFTER DVS
807919-11-A
Intensity (counts)
2Theta (deg)
3000
2000
1000
0
5
10
15
20
25
30
35
After DVS
Before DVS

FIG. 23

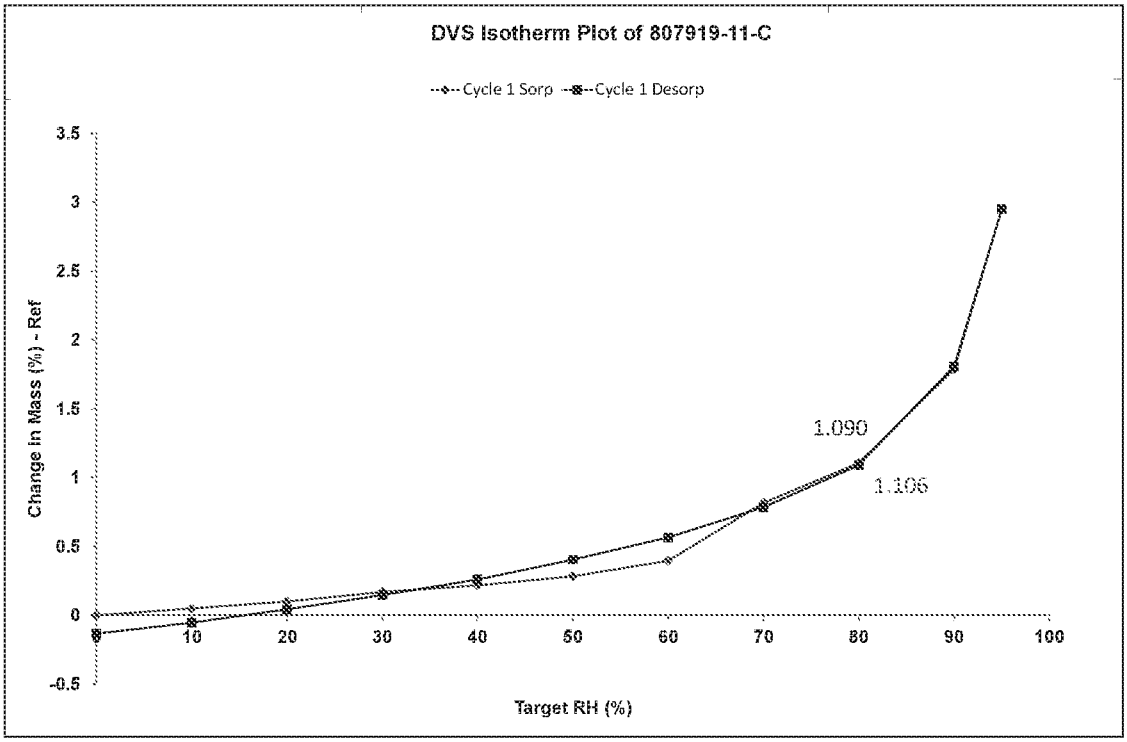

DVS Isotherm Plot of 807919-11-C
Cycle 1 Sorp
Cycle 1 Desorp
Change in Mass (%) - Ref
Target RH (%)
1.090
1.106

FIG. 24

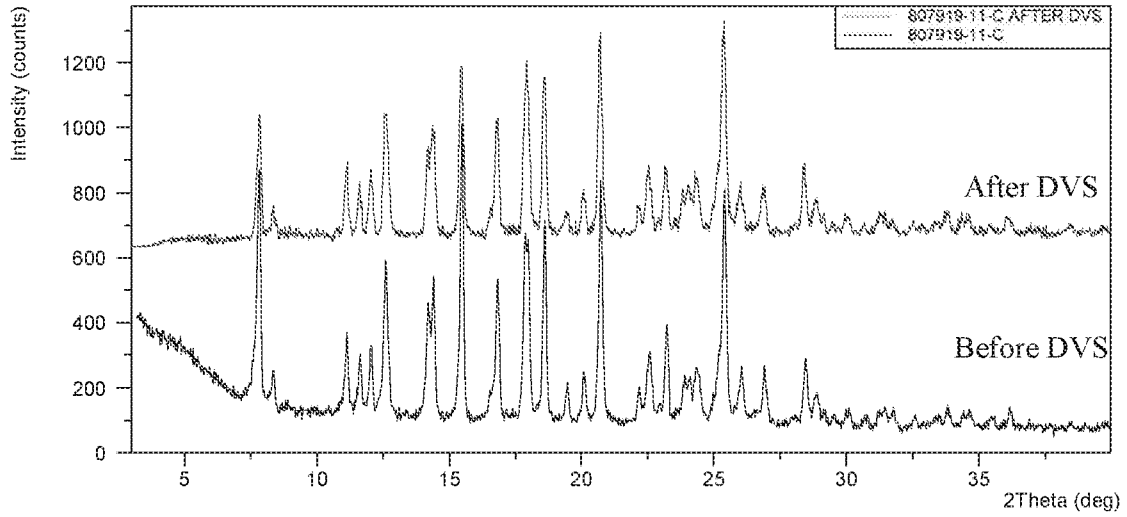

807919-11-C AFTER DVS
807919-11-C
Intensity (counts)
2Theta (deg)
After DVS
Before DVS

FIG. 25

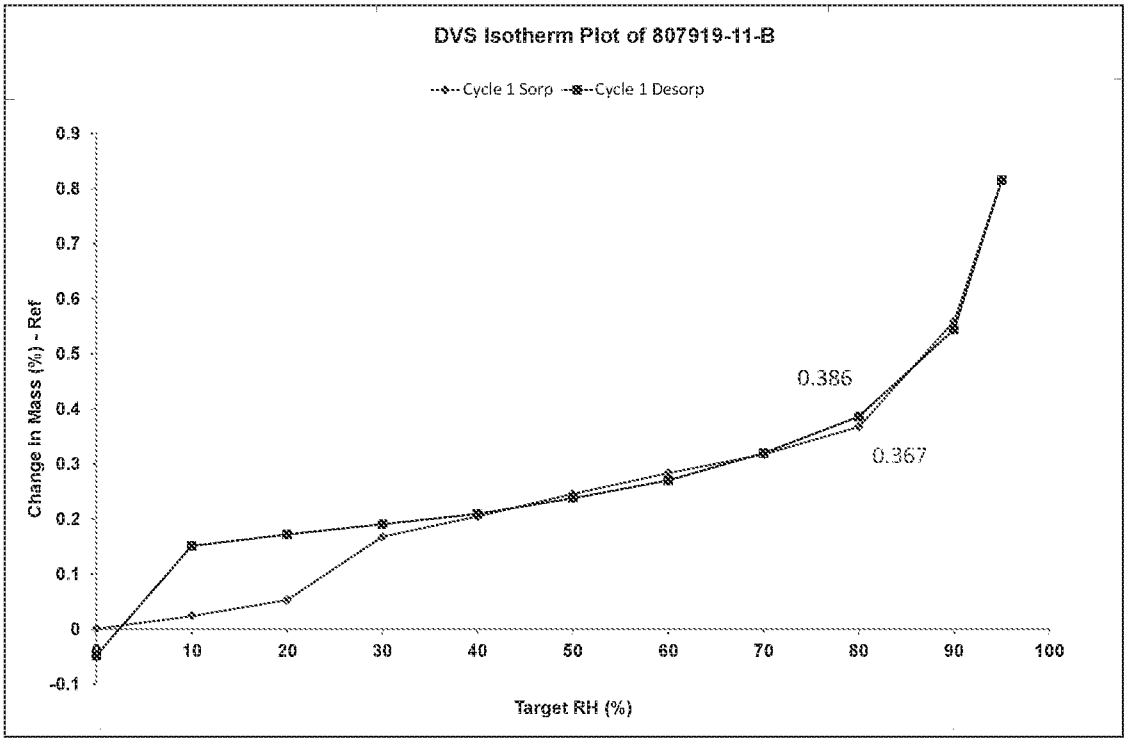

DVS Isotherm Plot of 807919-11-B
Cycle 1 Sorp
Cycle 1 Desorp
Change in Mass (%) - Ref
Target RH (%)
0.386
0.367

FIG. 26

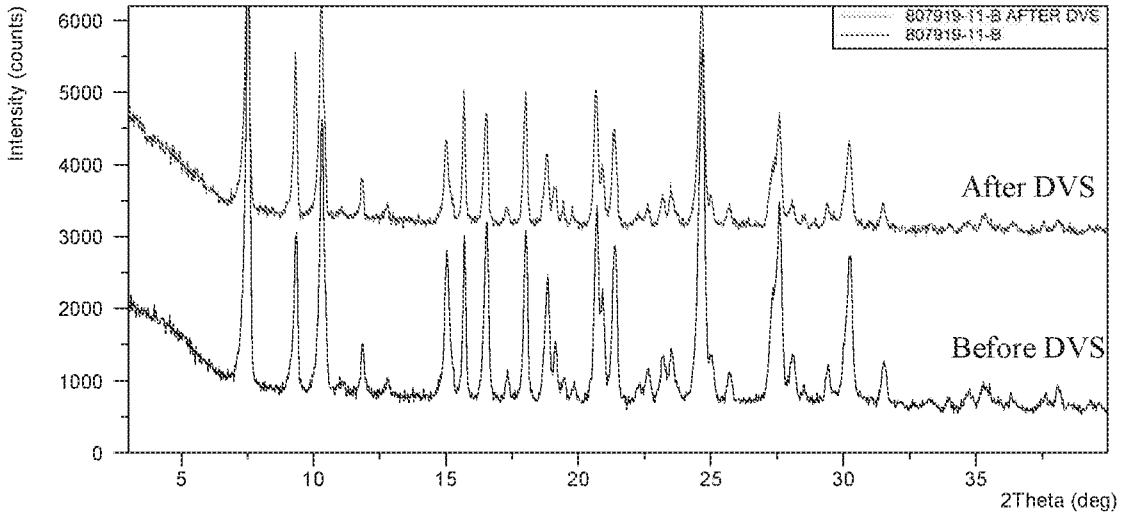

807919-11-B AFTER DVS
807919-11-B
Intensity (counts)
2Theta (deg)
After DVS
Before DVS

FIG. 27

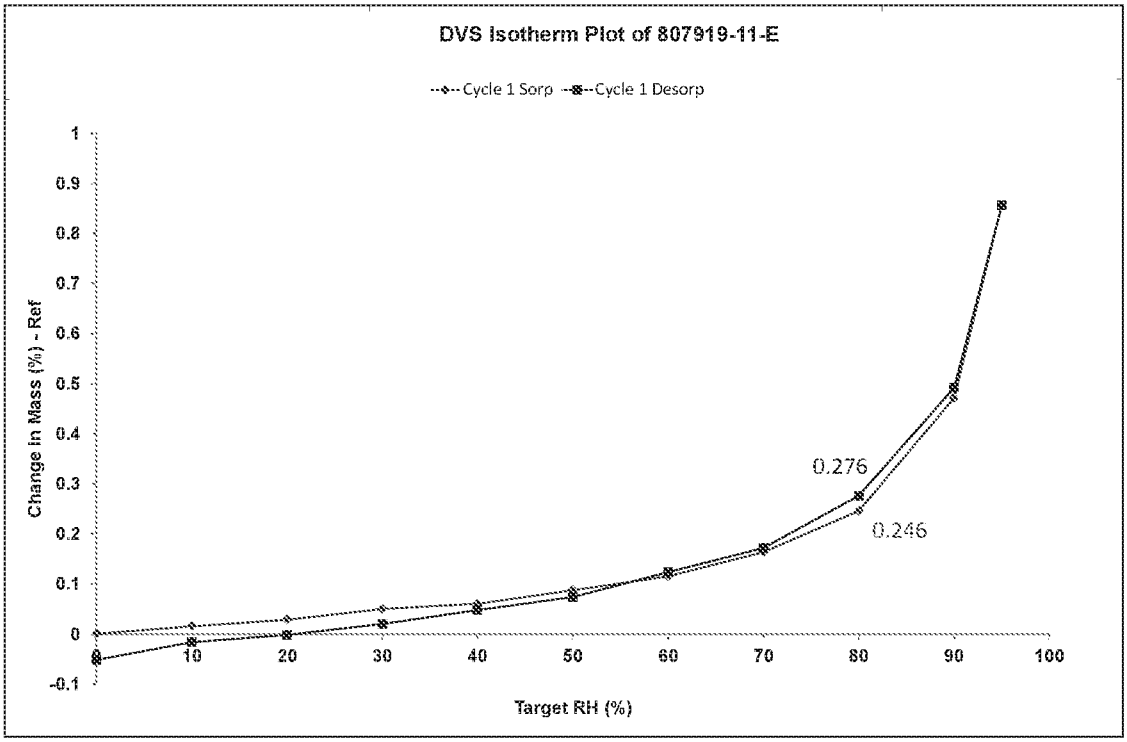

DVS Isotherm Plot of 807919-11-E
Cycle 1 Sorp
Cycle 1 Desorp
Change in Mass (%) - Ref
Target RH (%)
0.276
0.246
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
10
20
30
40
50
60
70
80
90
100

FIG. 28

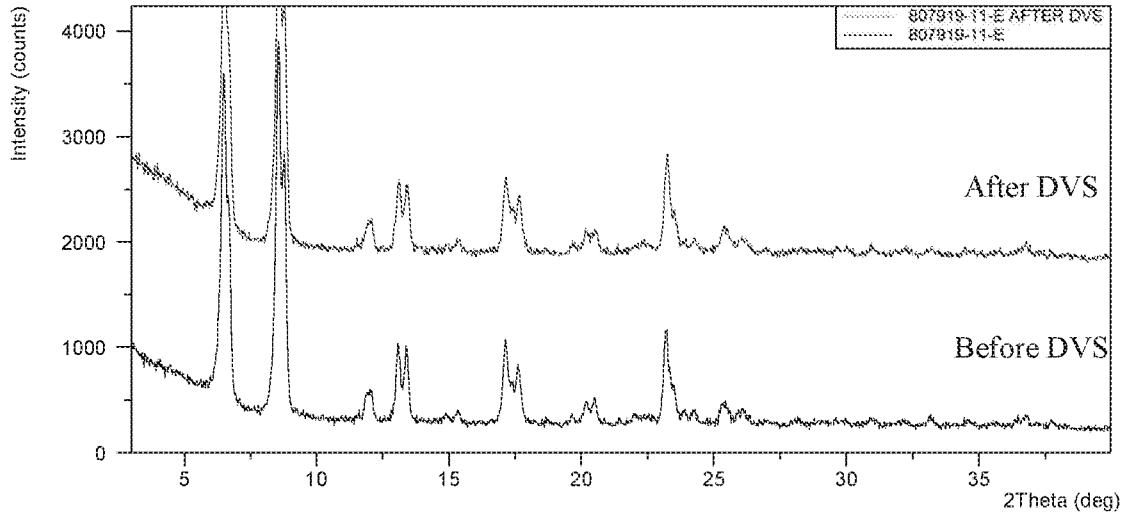

807919-11-E AFTER DVS
807919-11-E
Intensity (counts)
2Theta (deg)
After DVS
Before DVS
4000
3000
2000
1000
0
5
10
15
20
25
30
35

FIG. 29

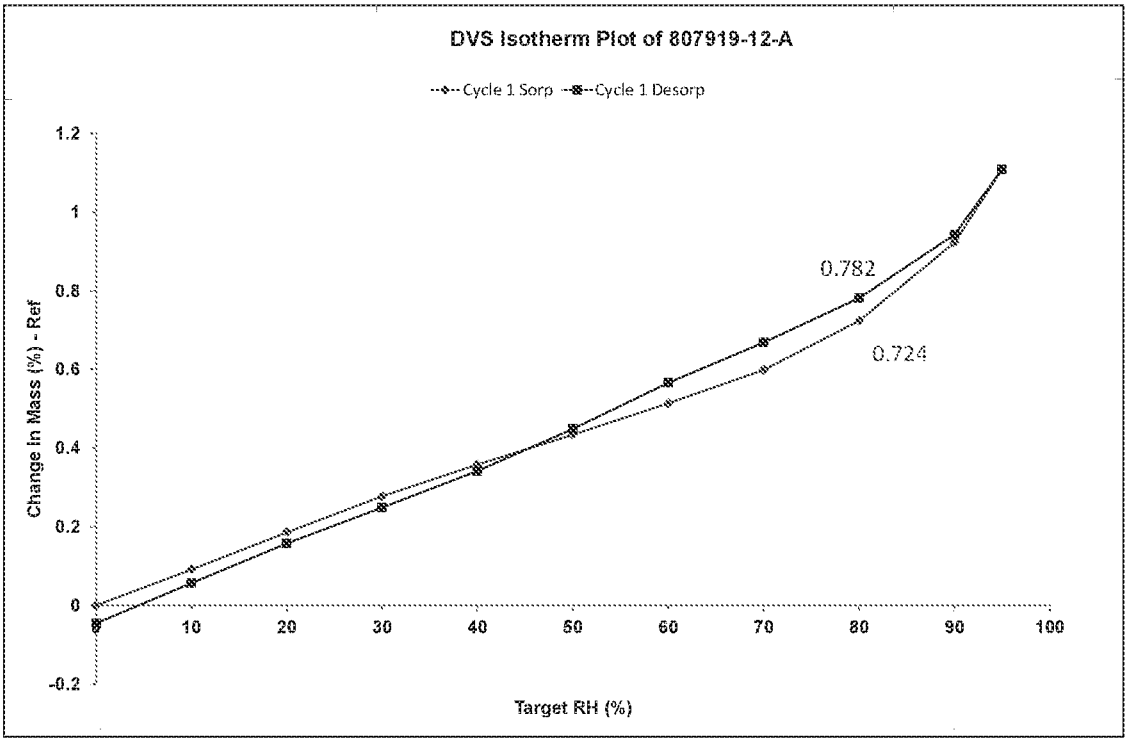

DVS Isotherm Plot of 807919-12-A
Cycle 1 Sorp
Cycle 1 Desorp
Change in Mass (%) - Ref
Target RH (%)
0.782
0.724
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
10
20
30
40
50
60
70
80
90
100

FIG. 30

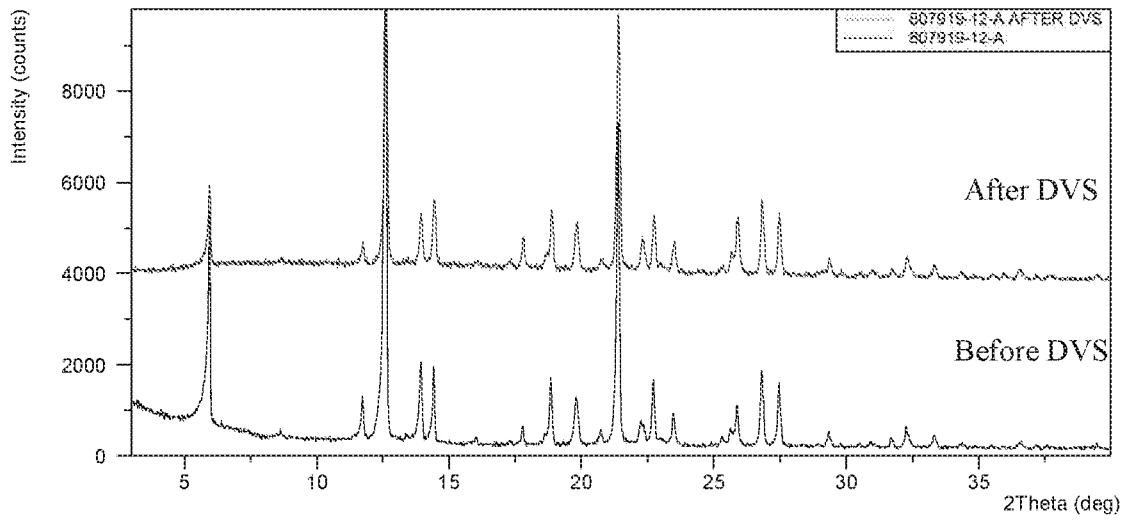

807919-12-A AFTER DVS
807919-12-A
Intensity (counts)
2Theta (deg)
After DVS
Before DVS
8000
6000
4000
2000
0
5
10
15
20
25
30
35

FIG. 31

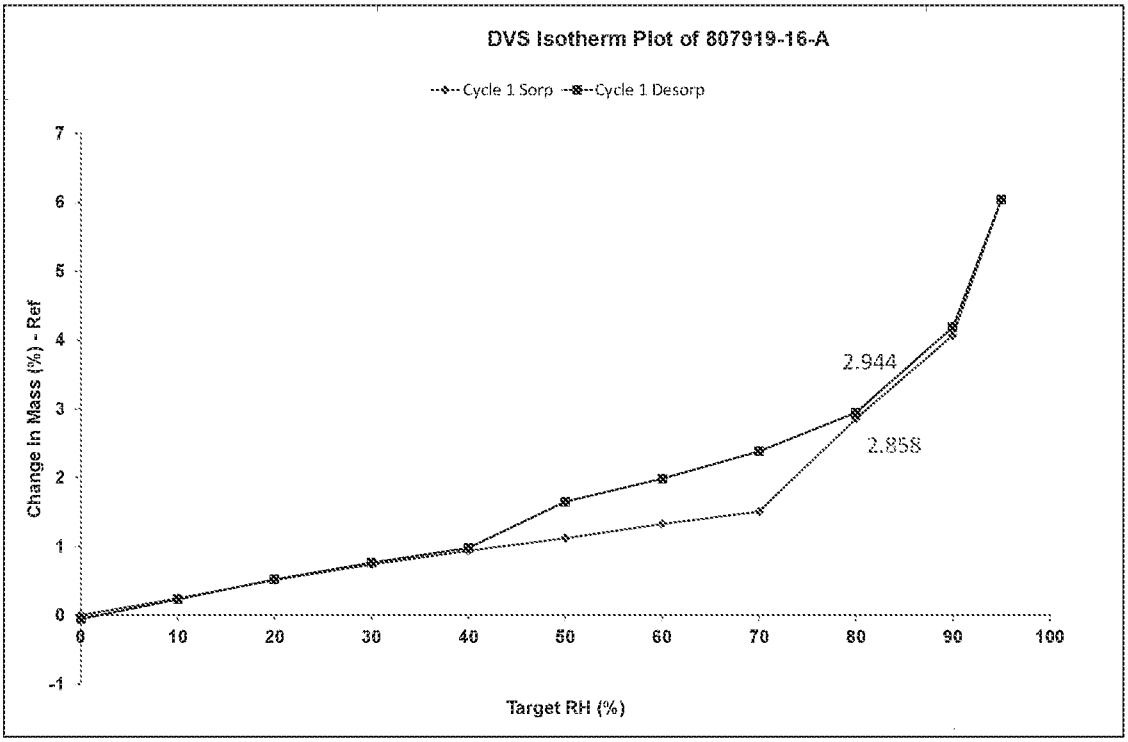

DVS Isotherm Plot of 807919-16-A
Cycle 1 Sorp
Cycle 1 Desorp
Change in Mass (%) - Ref
Target RH (%)
2.944
2.858

FIG. 32

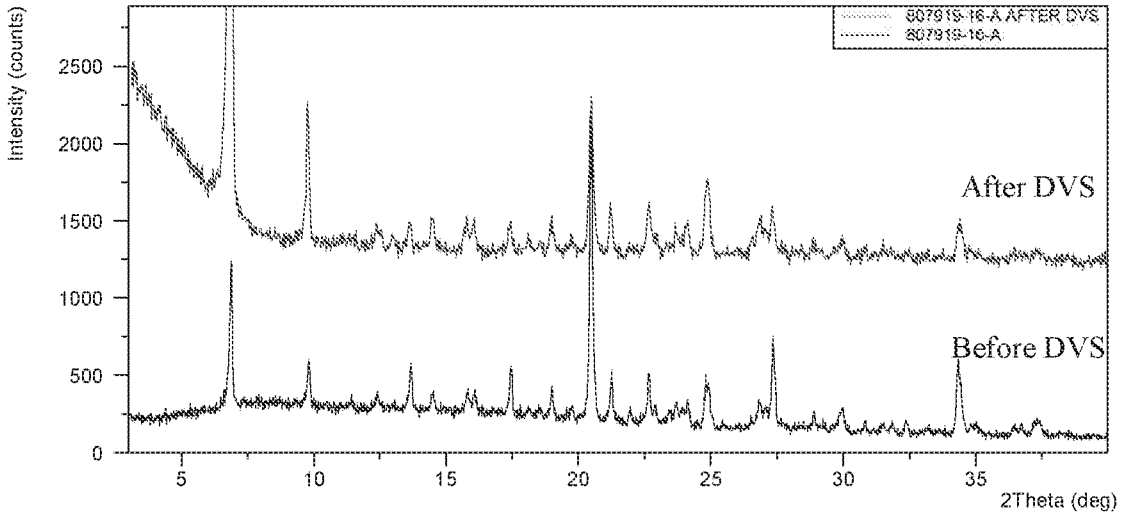

807919-16-A AFTER DVS
807919-16-A
Intensity (counts)
2Theta (deg)
After DVS
Before DVS

FIG. 33

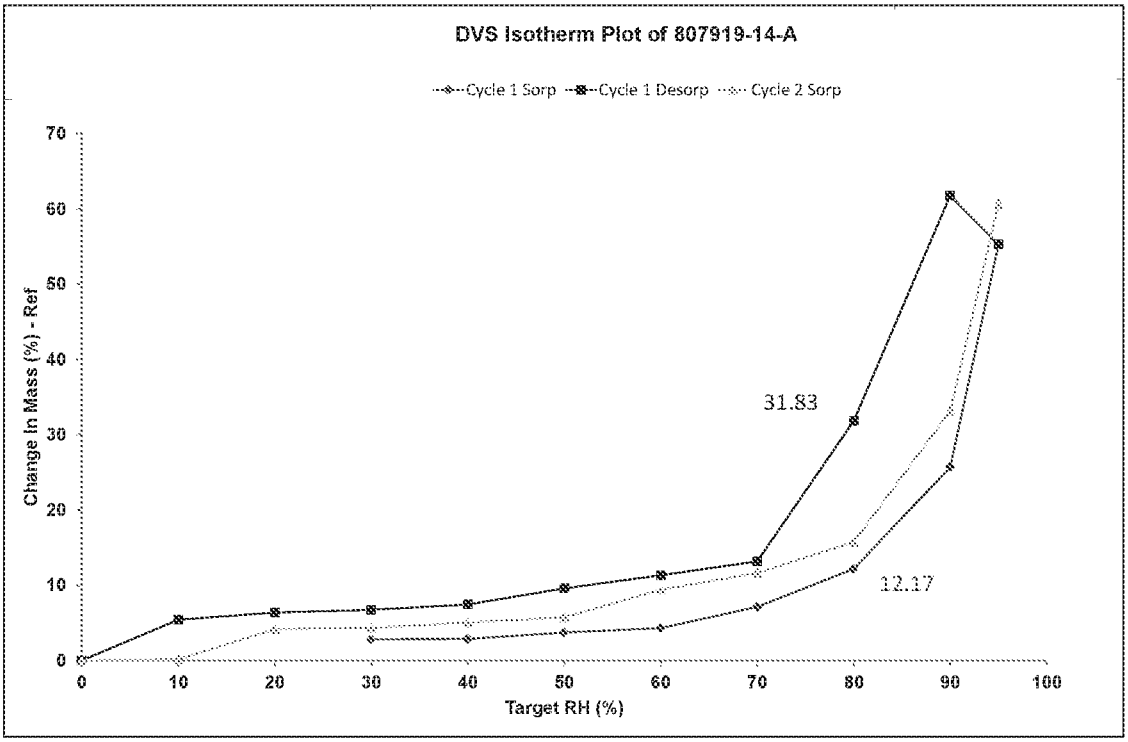

DVS Isotherm Plot of 807919-14-A
Cycle 1 Sorp
Cycle 1 Desorp
Cycle 2 Sorp
Change In Mass (%) - Ref
Target RH (%)
31.83
12.17
0
10
20
30
40
50
60
70
80
90
100

FIG. 34

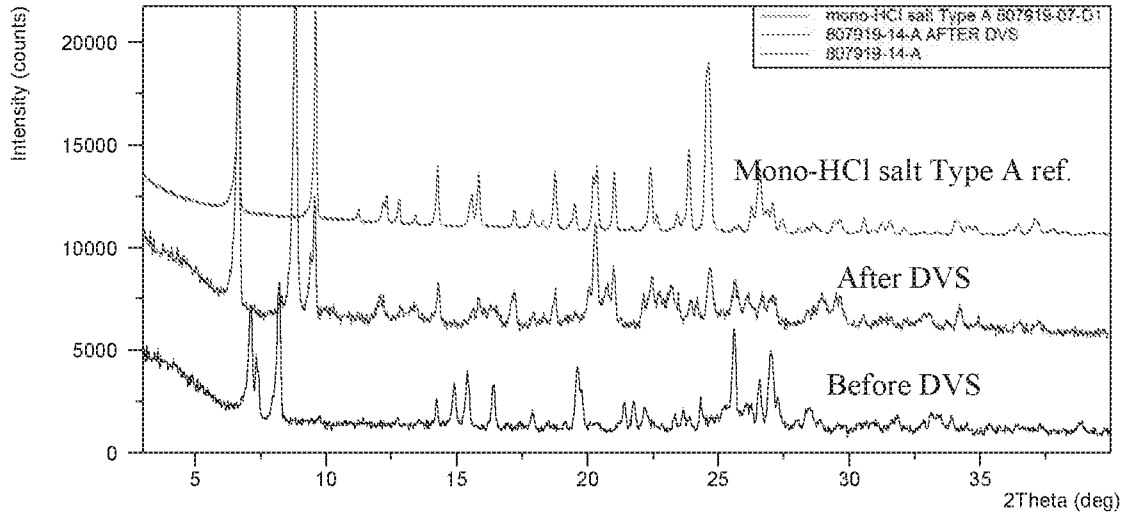

mono-HCl salt Type A 807919-07-01
807919-14-A AFTER DVS
807919-14-A
Intensity (counts)
2Theta (deg)
Mono-HCl salt Type A ref.
After DVS
Before DVS
0
5000
10000
15000
20000
5
10
15
20
25
30
35

FIG. 35

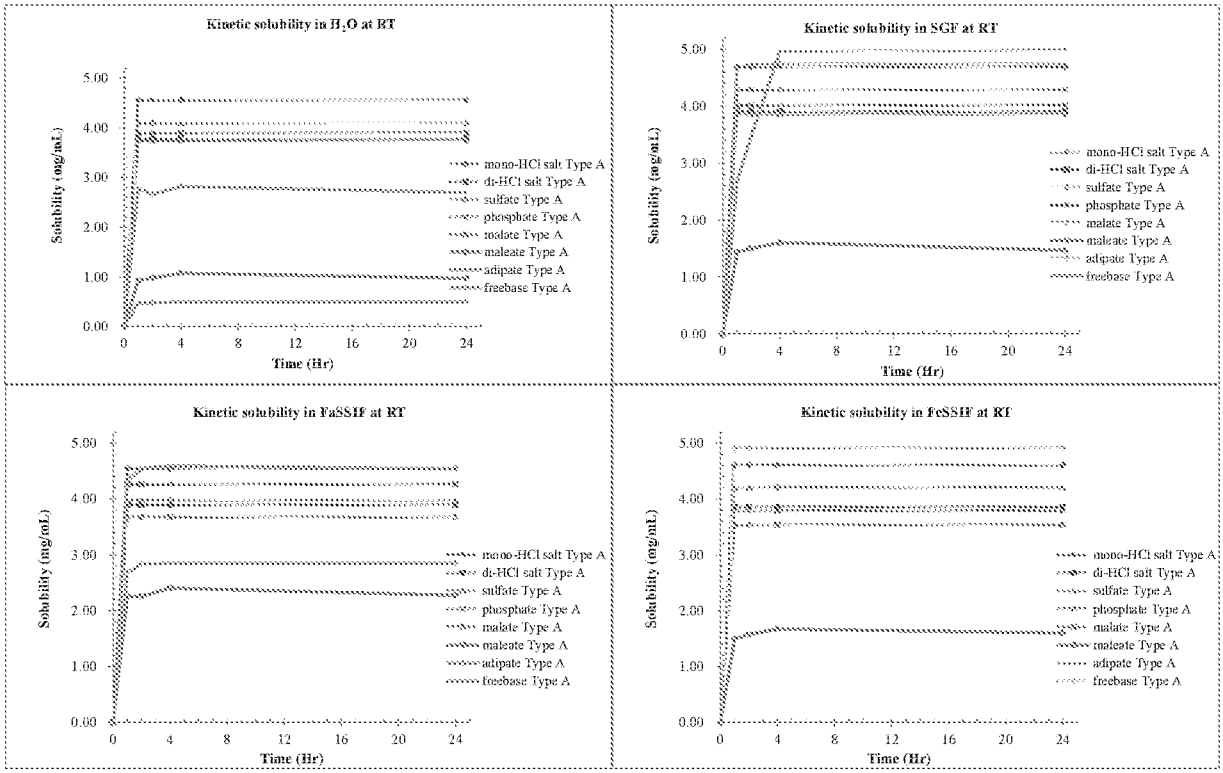

Kinetic solubility in H_2O at RT
Kinetic solubility in SGF at RT
Kinetic solubility in FaSSIF at RT
Kinetic solubility in FeSSIF at RT
Solubility (mg/mL)
Time (Hr)
mono-HCl salt Type A
di-HCl salt Type A
sulfate Type A
phosphate Type A
malate Type A
maleate Type A
adipate Type A
freebase Type A

FIG. 36

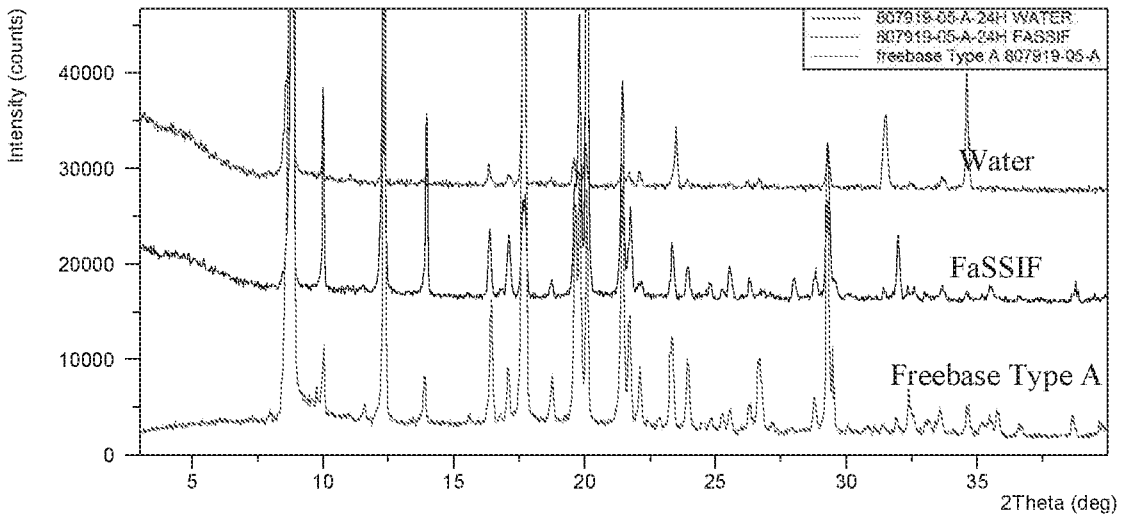

807919-05-A-24H WATER
807919-05-A-24H FASSIF
freebase Type A 807919-05-A
Water
FaSSIF
Freebase Type A
Intensity (counts)
2Theta (deg)

FIG. 37

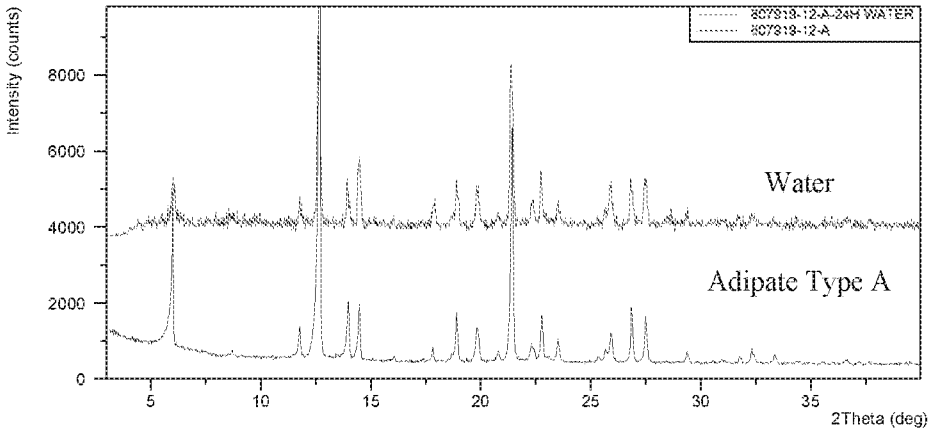


FIG. 38

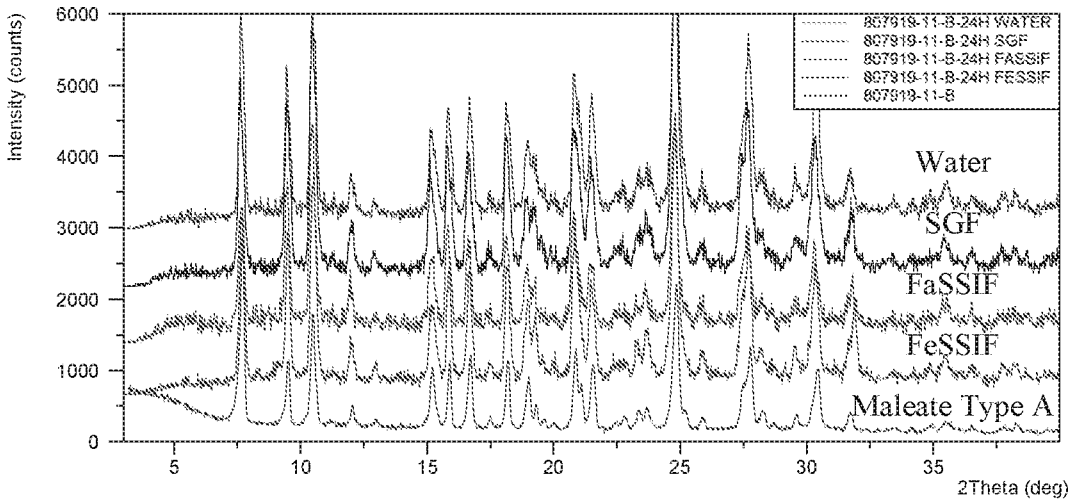


FIG. 39

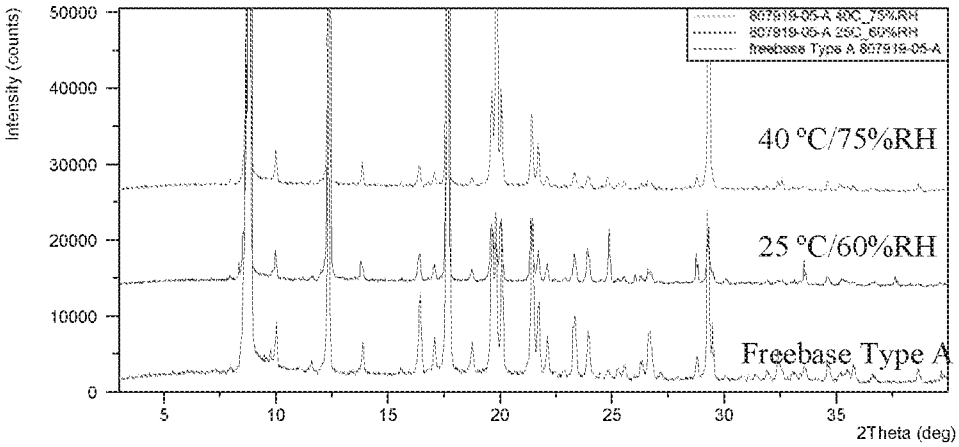


FIG. 40

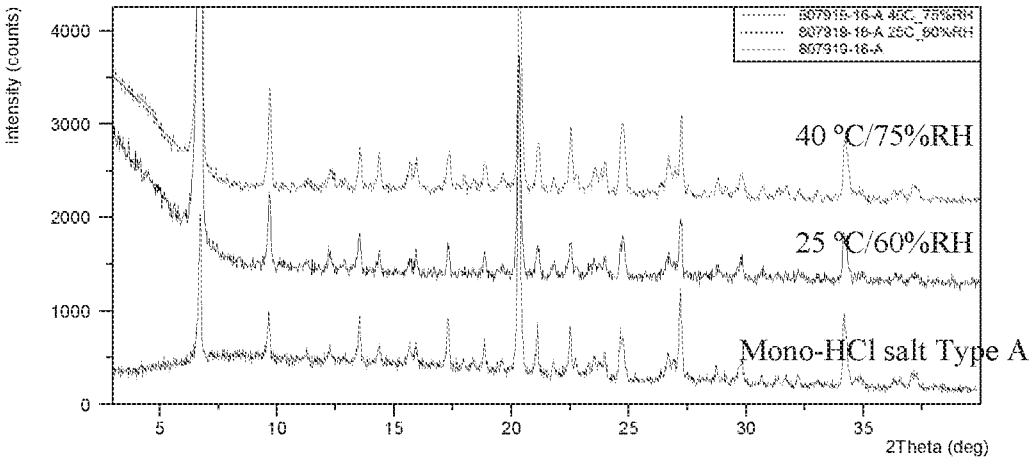


FIG. 41

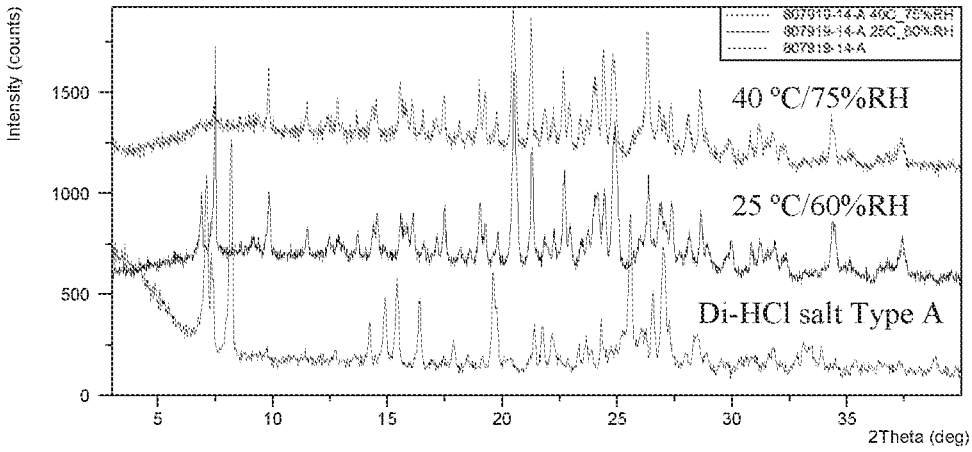


FIG. 42

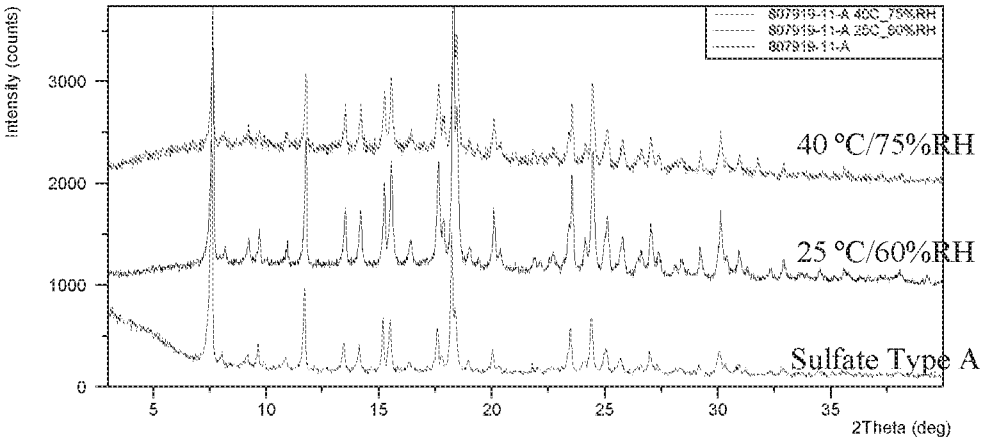


FIG. 43

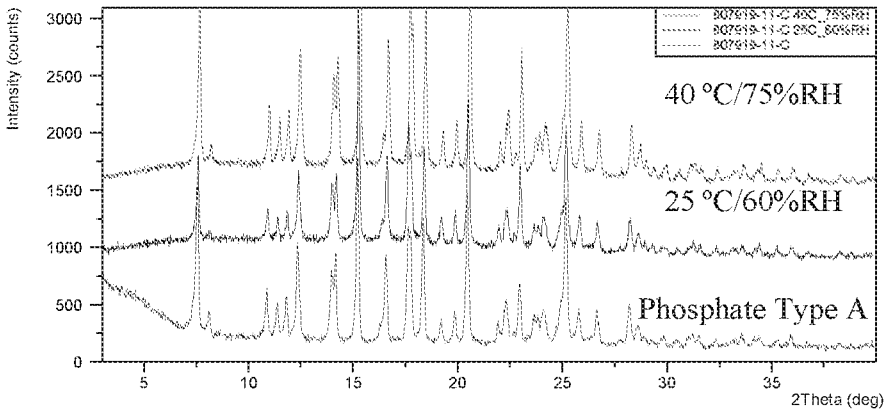


FIG. 44

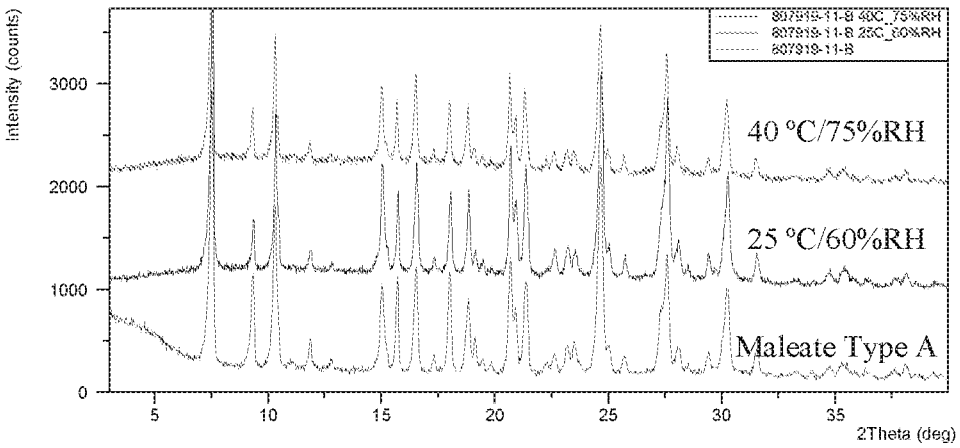


FIG. 45

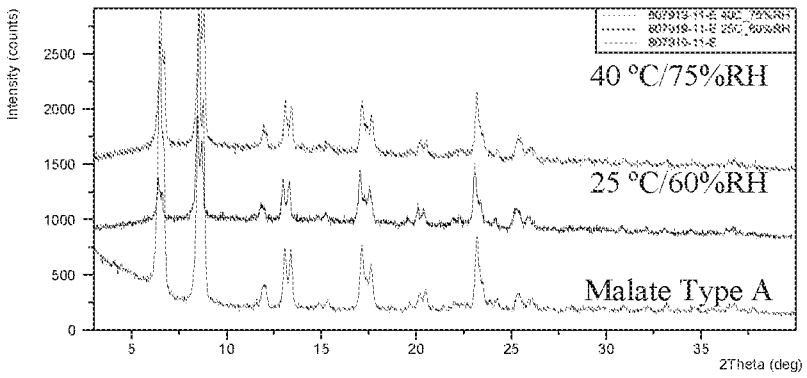


FIG. 46

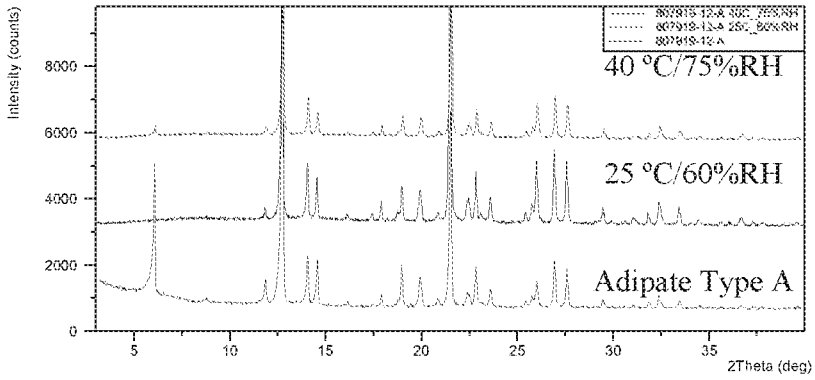


FIG. 47

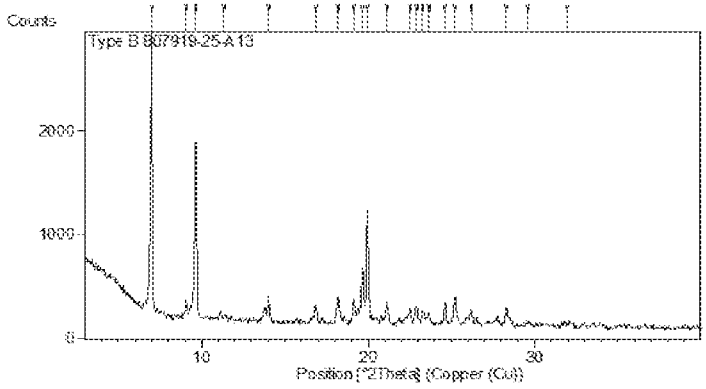


FIG. 48

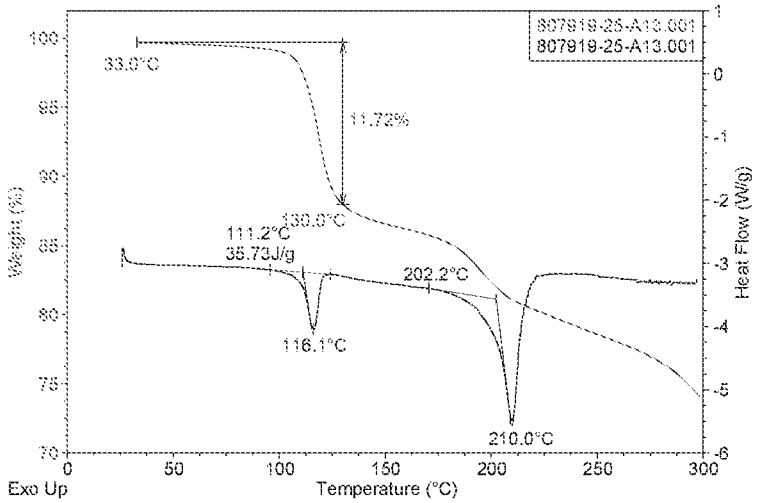


FIG. 49

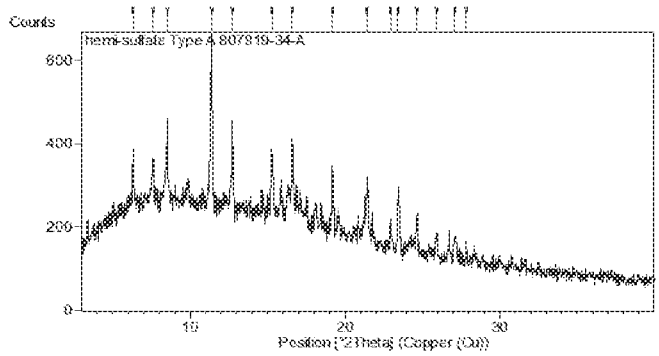


FIG. 50

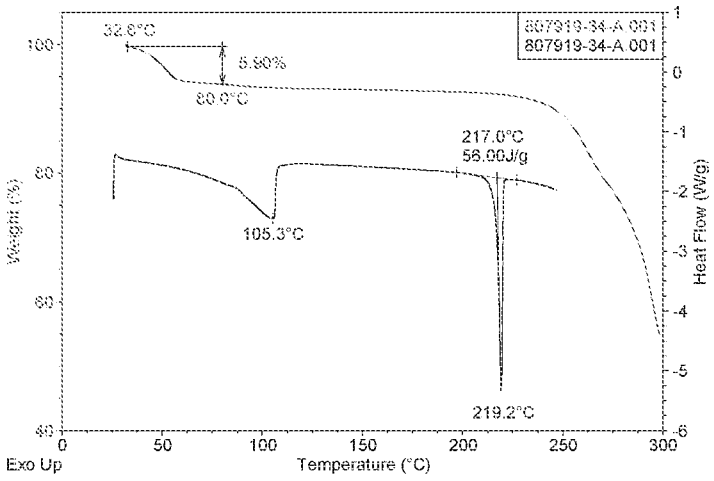


FIG. 51

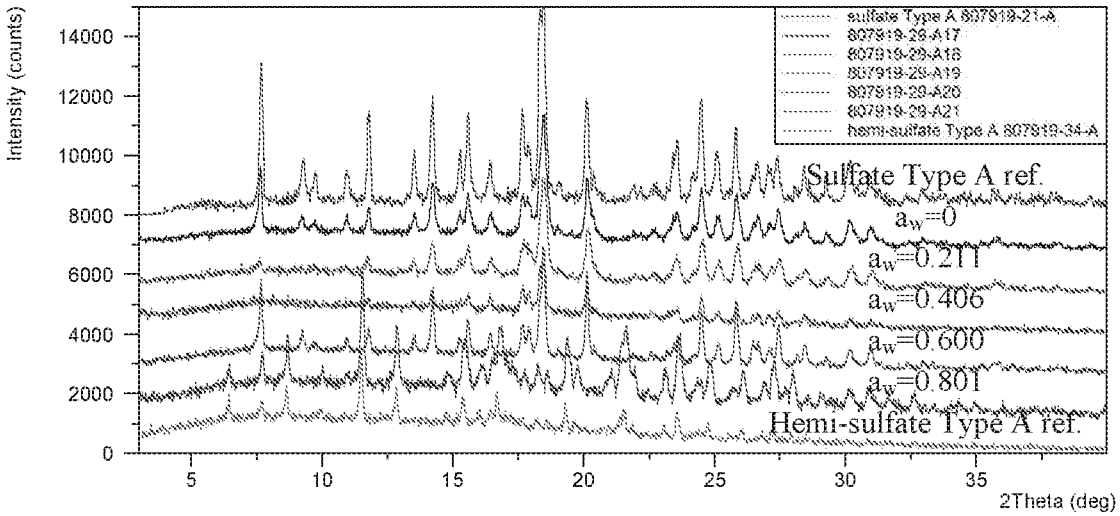


FIG. 52

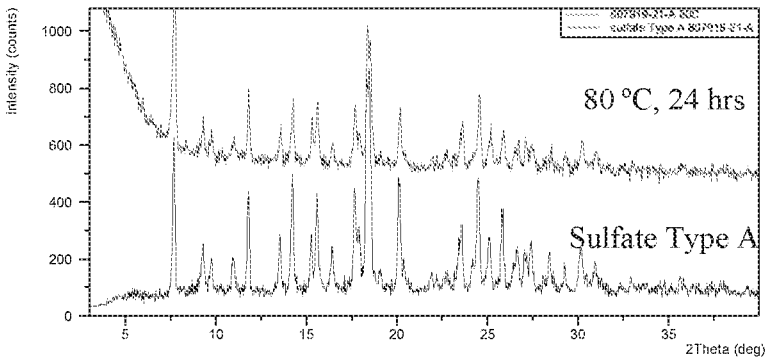


FIG. 53

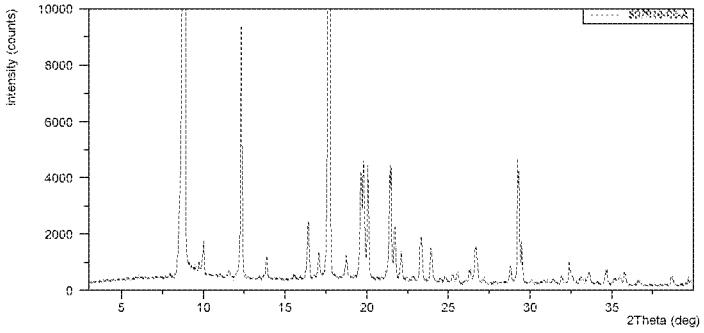


FIG. 54

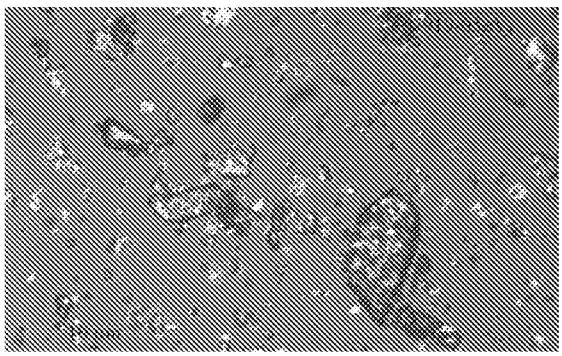


FIG. 55

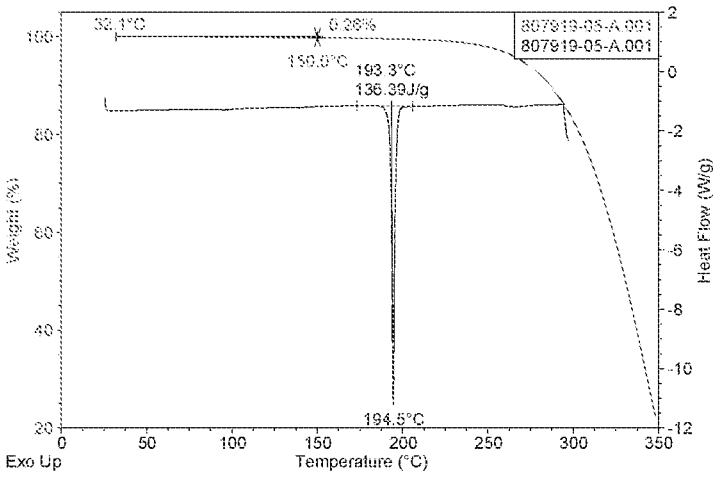

38.1°C
0.26%
150.0°C
193.3°C
136.39J/g
194.5°C
807919-05-A.001
807919-05-A.001
Weight (%)
Heat Flow (W/g)
Exo Up
Temperature (°C)

FIG. 56

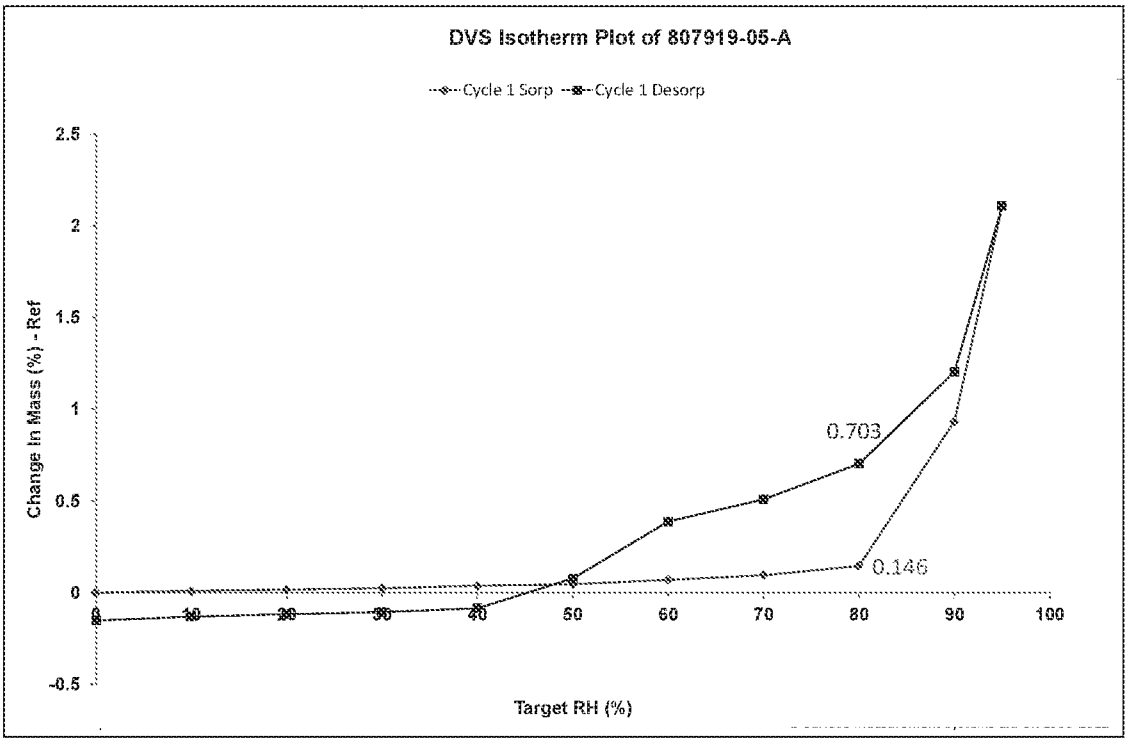

DVS Isotherm Plot of 807919-05-A
Cycle 1 Sorp
Cycle 1 Desorp
Change In Mass (%) - Ref
Target RH (%)
0.703
0.146

FIG. 57

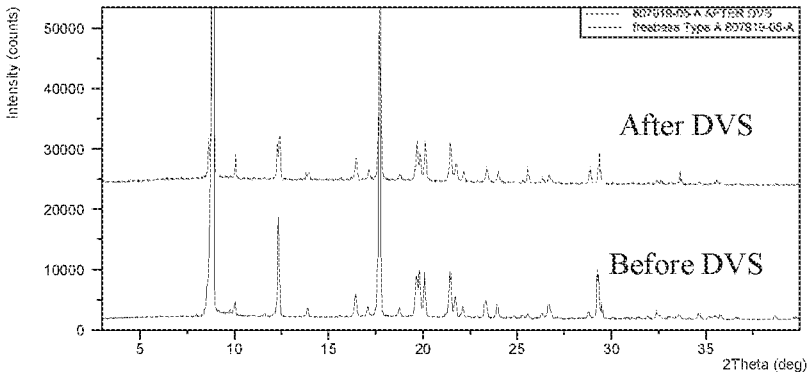


FIG. 58

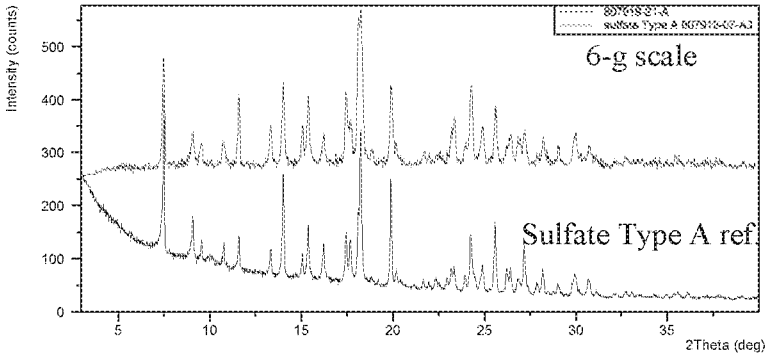


FIG. 59

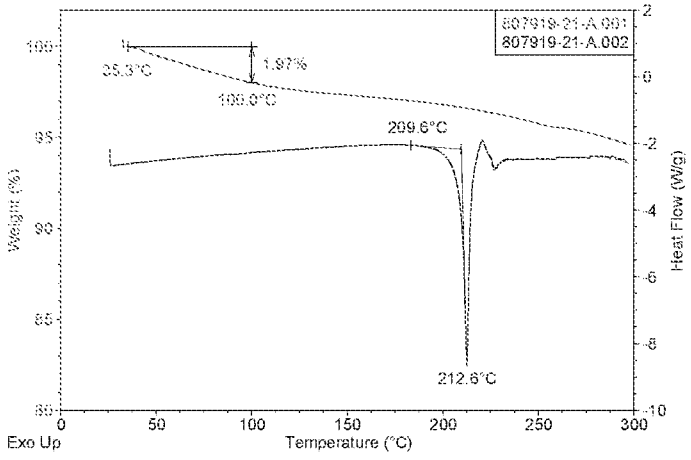


FIG. 60

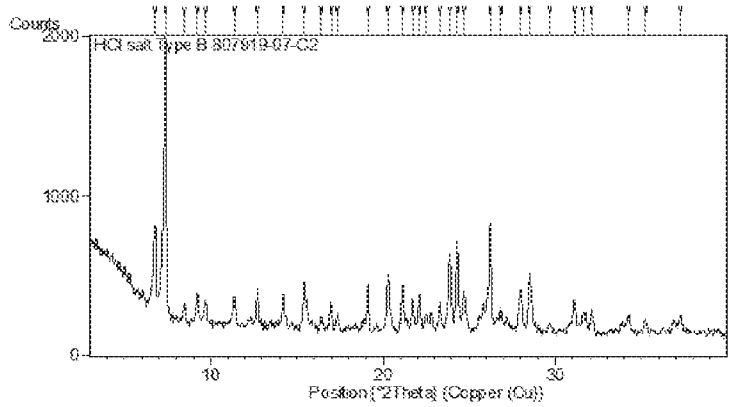


FIG. 61

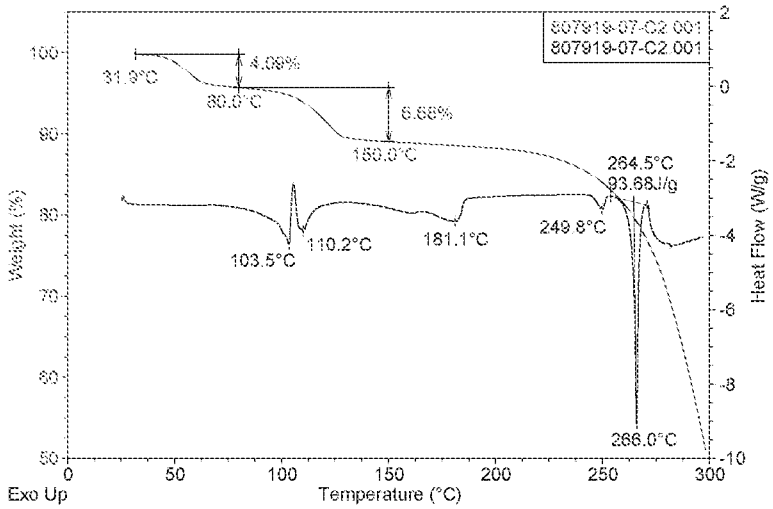


FIG. 62

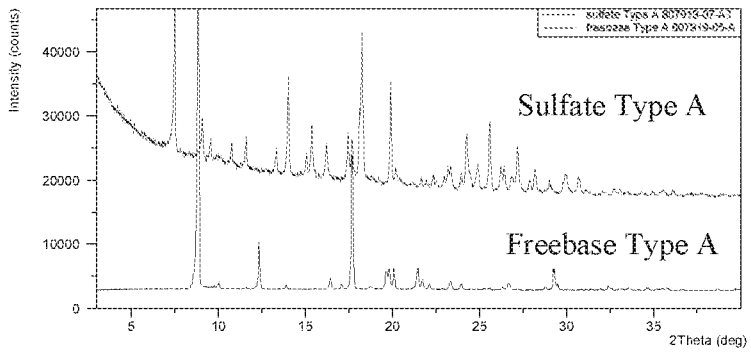


FIG. 63

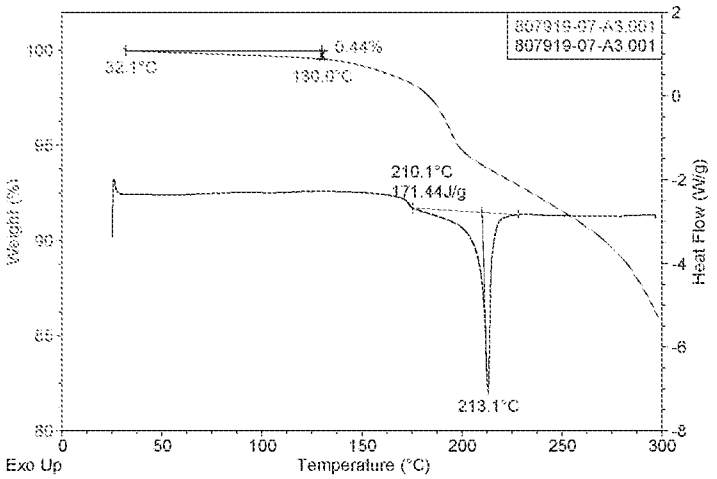


FIG. 64

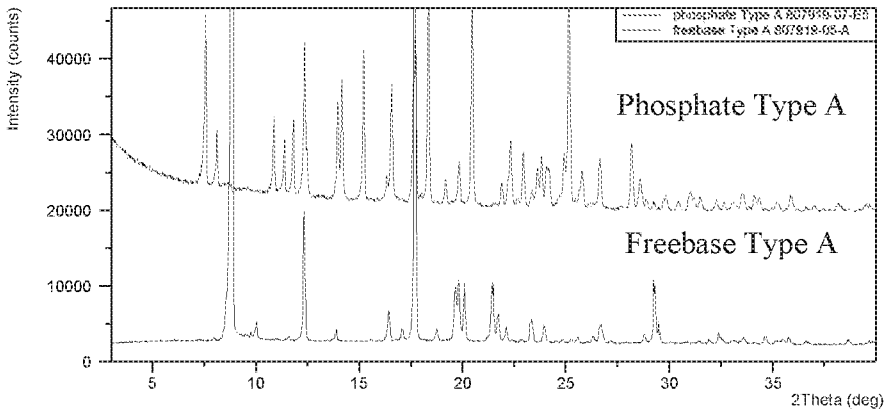


FIG. 65

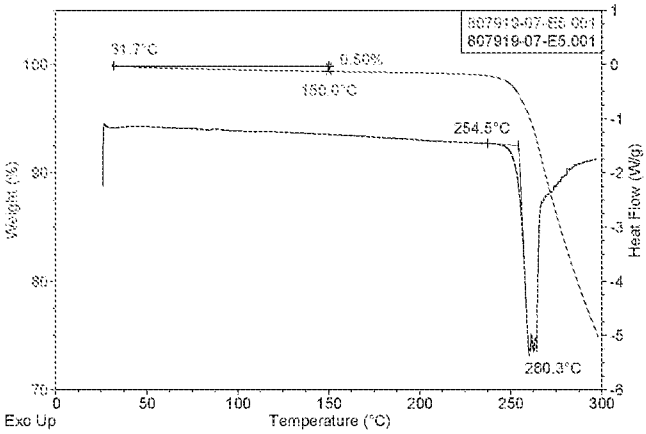


FIG. 66

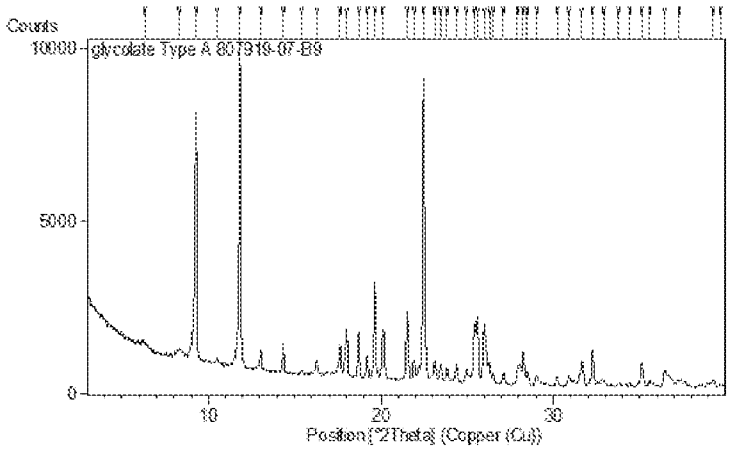


FIG. 67

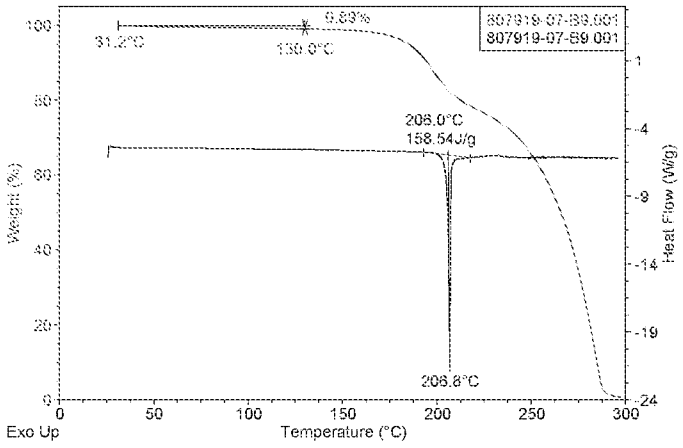


FIG. 68

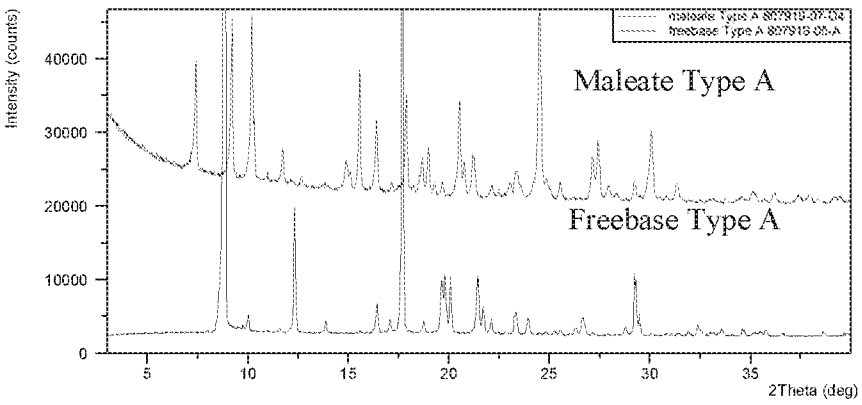


FIG. 69

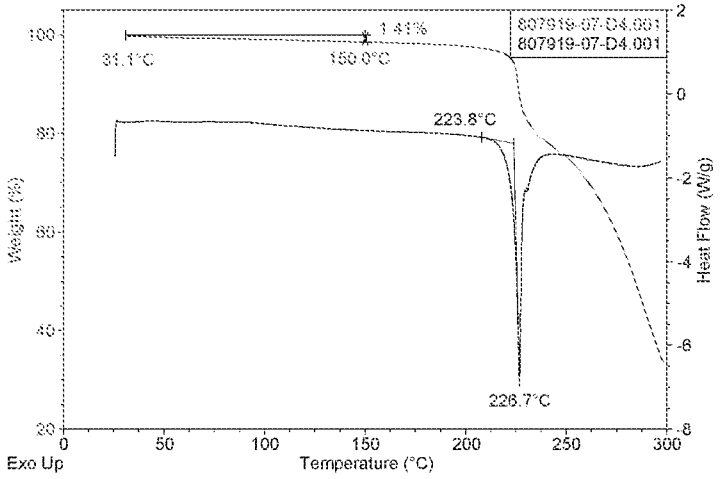


FIG. 70

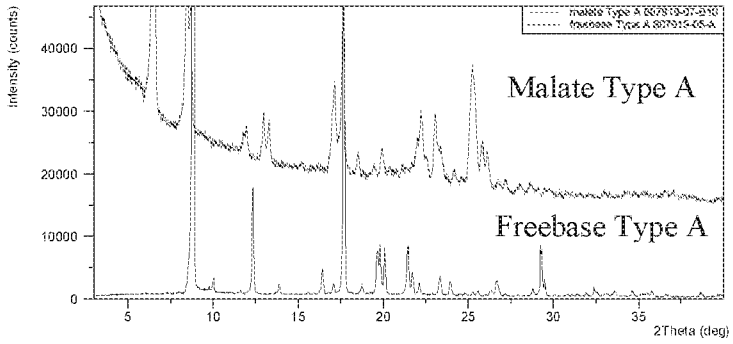


FIG. 71

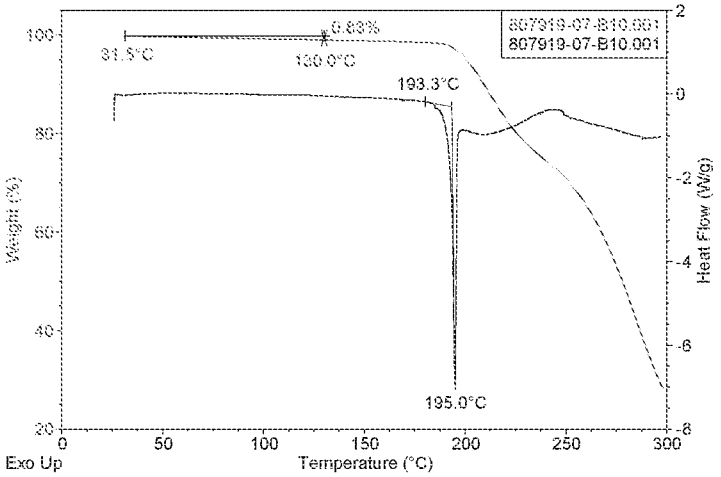


FIG. 72

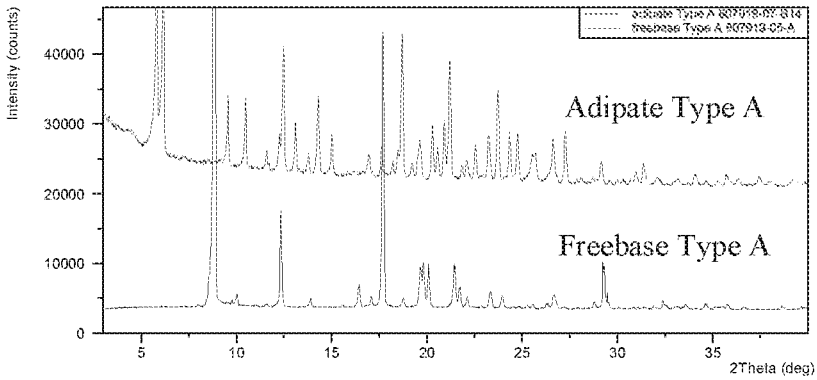


FIG. 73

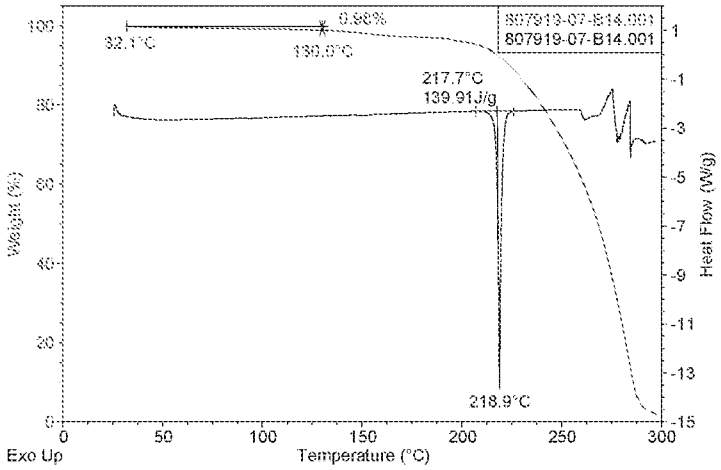


FIG. 74

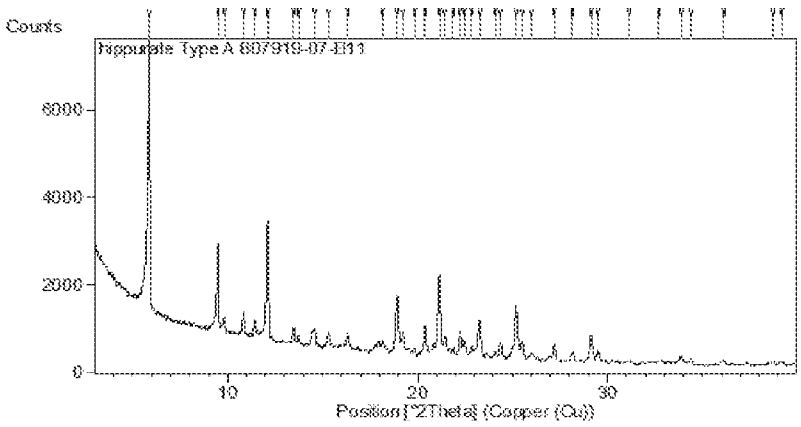


FIG. 75

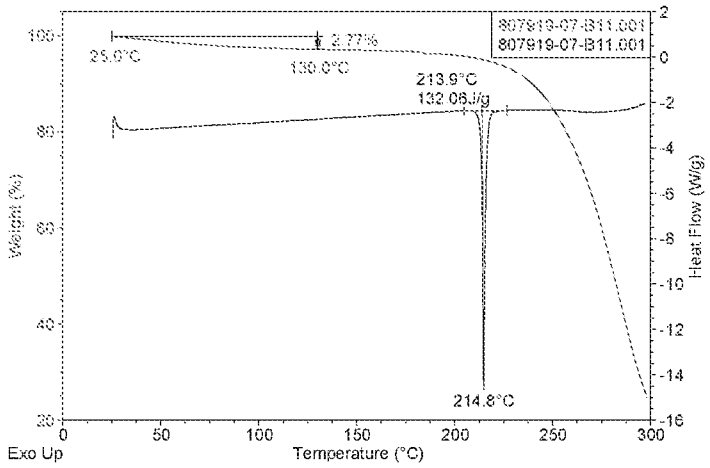


FIG. 76

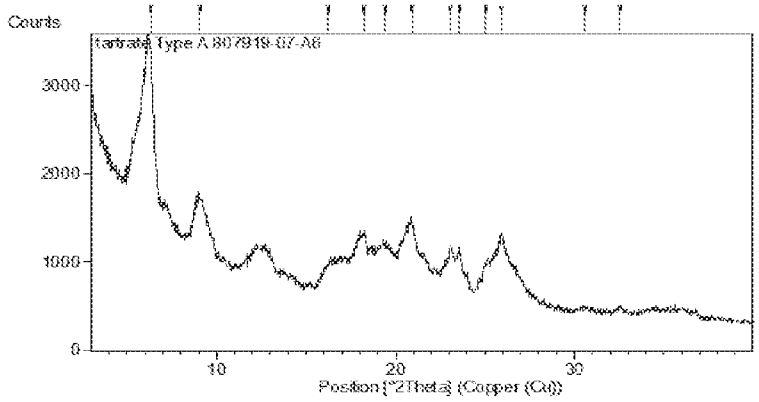


FIG. 77

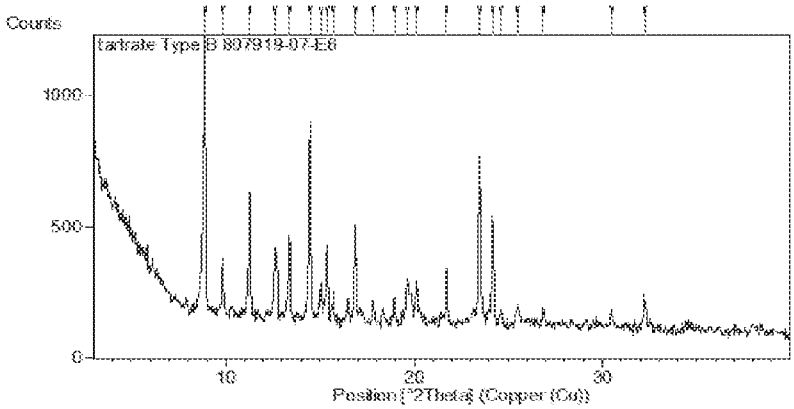


FIG. 78

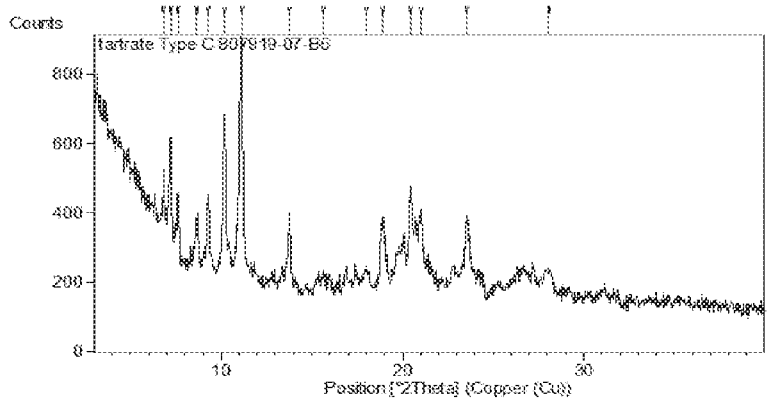


FIG. 79

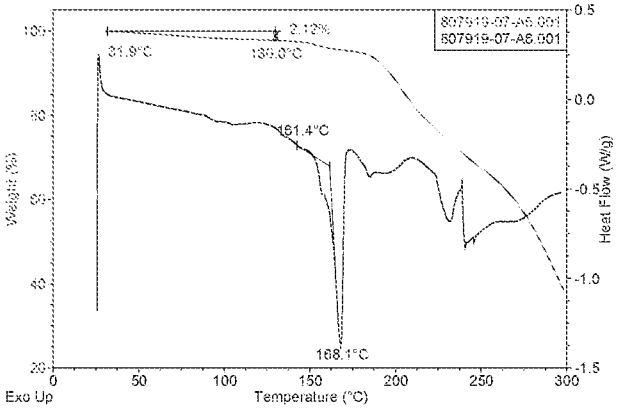


FIG. 80

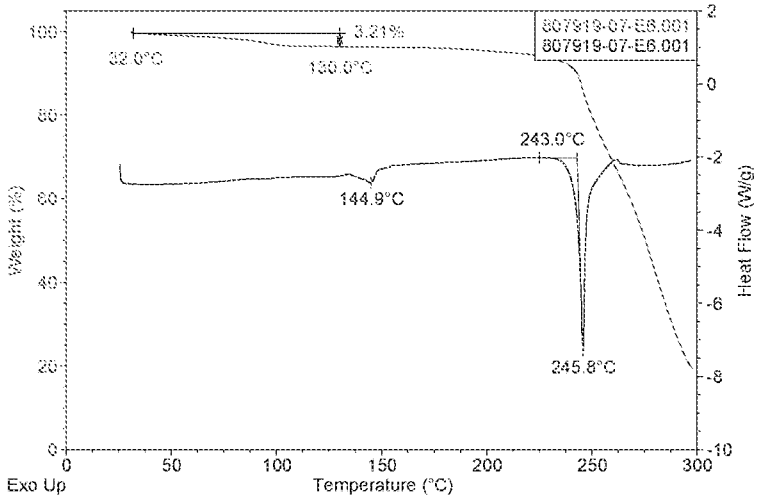


FIG. 81

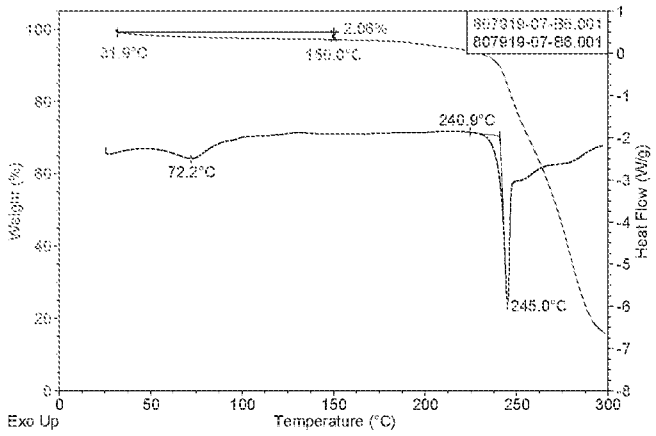


FIG. 82

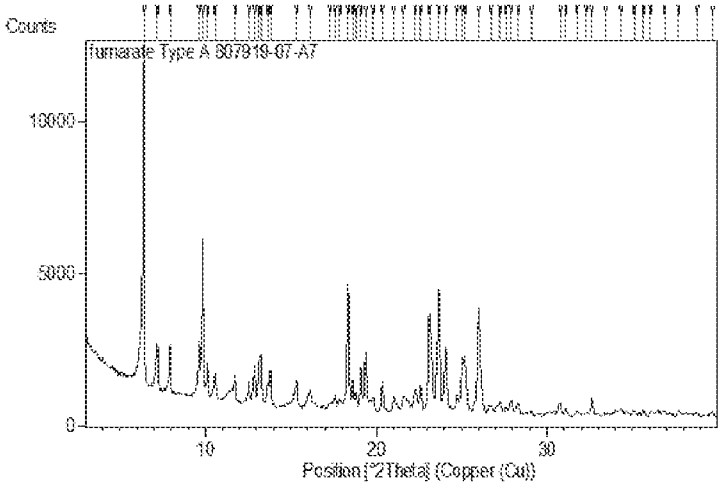


FIG. 83

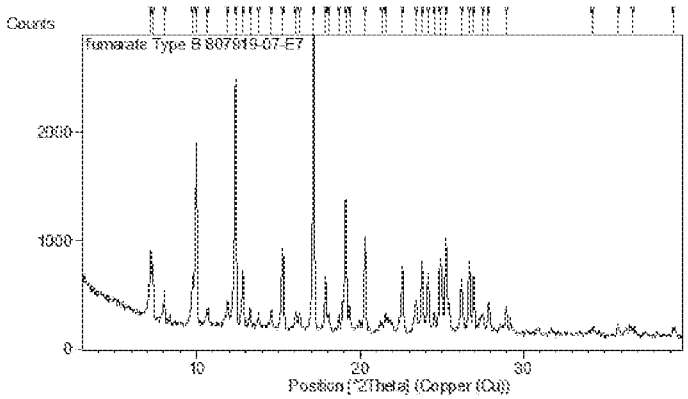


FIG. 84

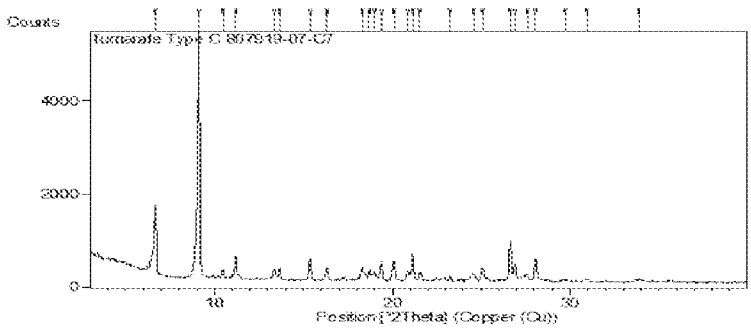


FIG. 85

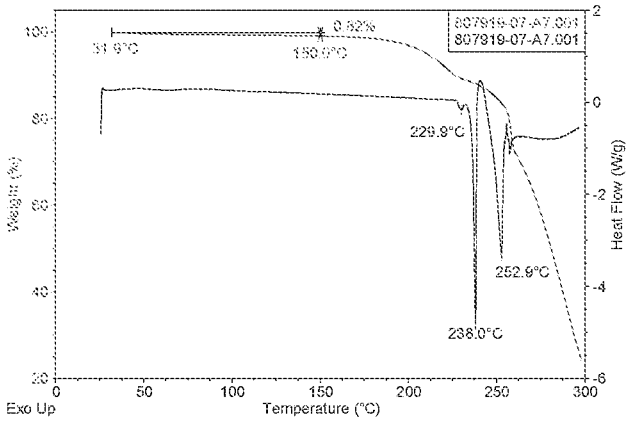


FIG. 86

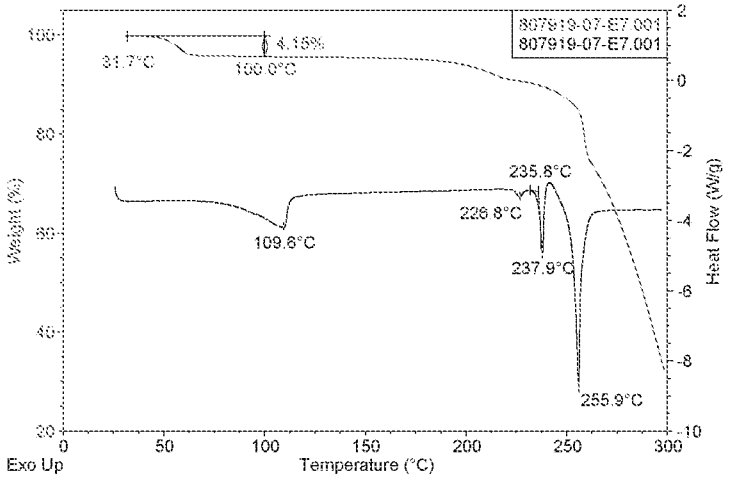


FIG. 87

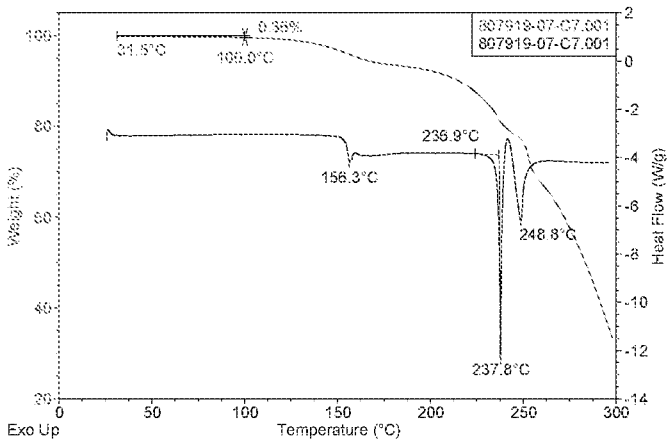


FIG. 88

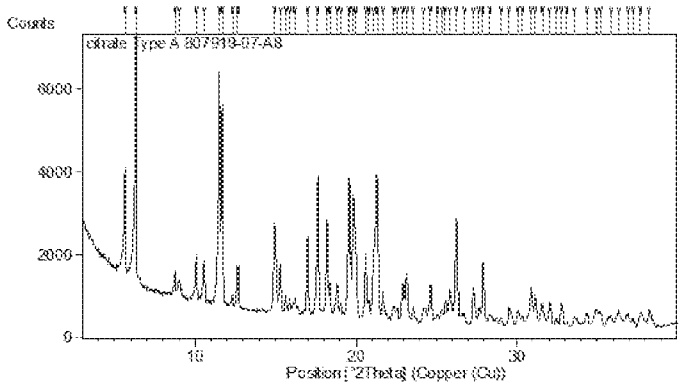


FIG. 89

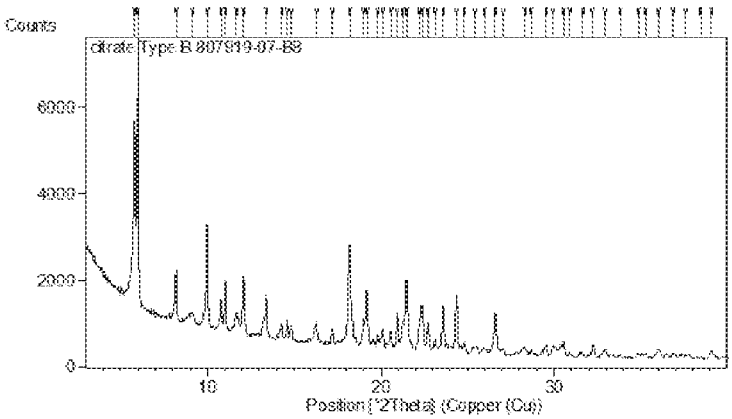


FIG. 90

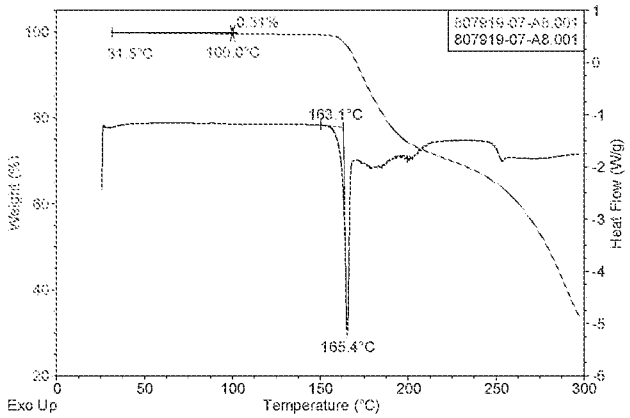

807919-07-A8.001
807919-07-A8.001
0.31%
31.5°C
100.0°C
163.1°C
165.4°C
Weight (%)
Heat Flow (W/g)
Exo Up
Temperature (°C)

FIG. 91

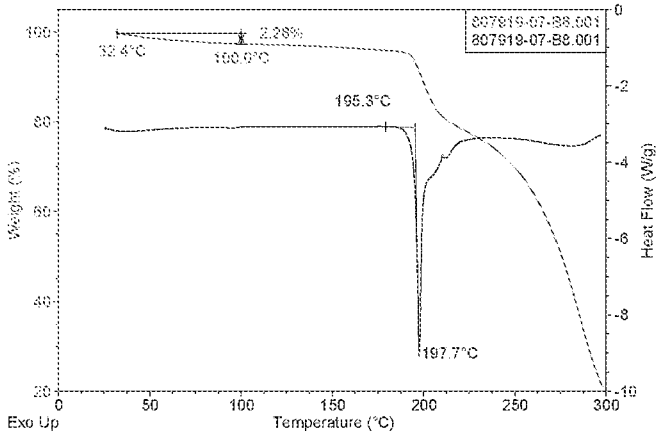
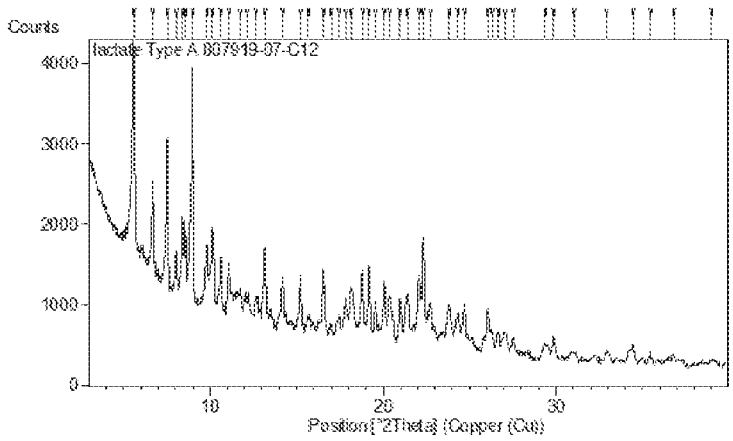

807919-07-B8.001
807919-07-B8.001
2.28%
32.4°C
100.0°C
195.3°C
197.7°C
Weight (%)
Heat Flow (W/g)
Exo Up
Temperature (°C)

FIG. 92


Counts
lactate Type A 807919-07-C12
Position [°2Theta] (Copper (Cu))

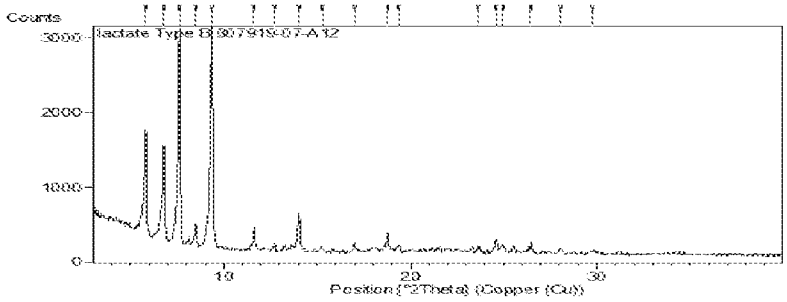


FIG. 94

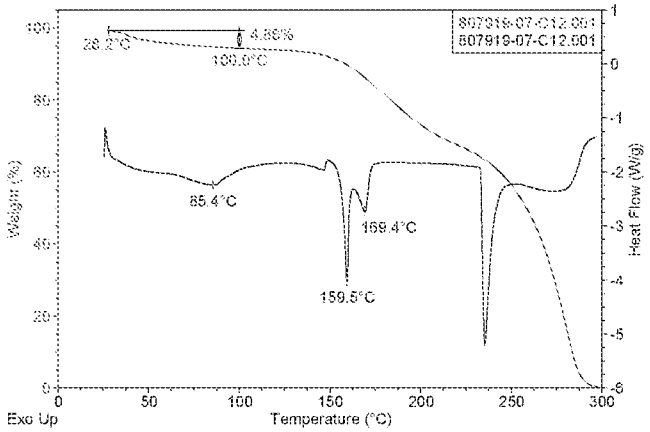


FIG. 95

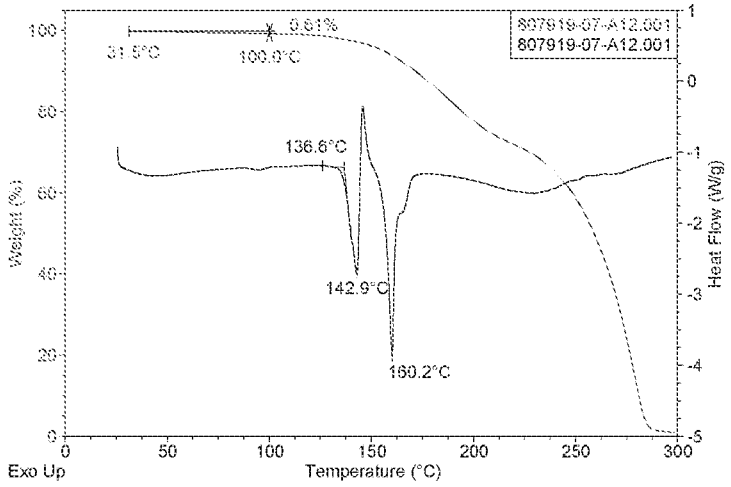


FIG. 96

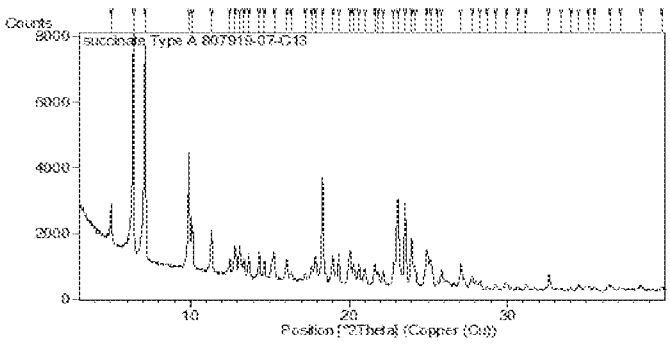


FIG. 97

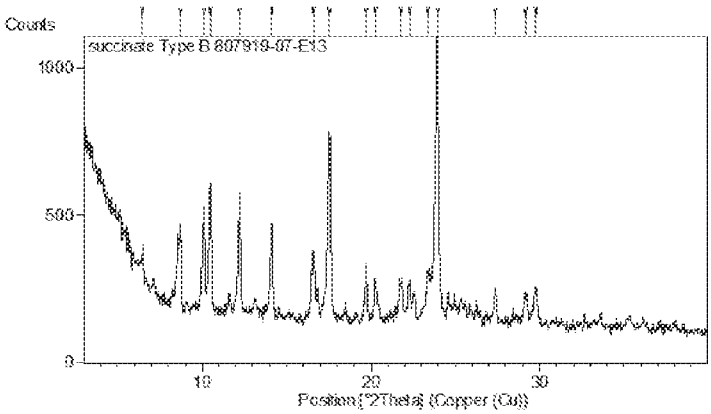


FIG. 98

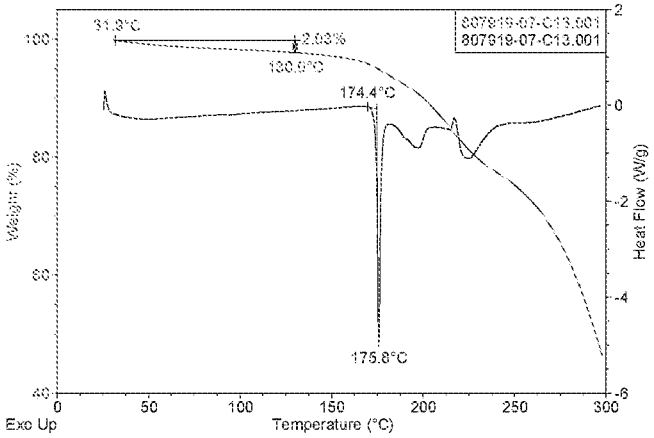


FIG. 99

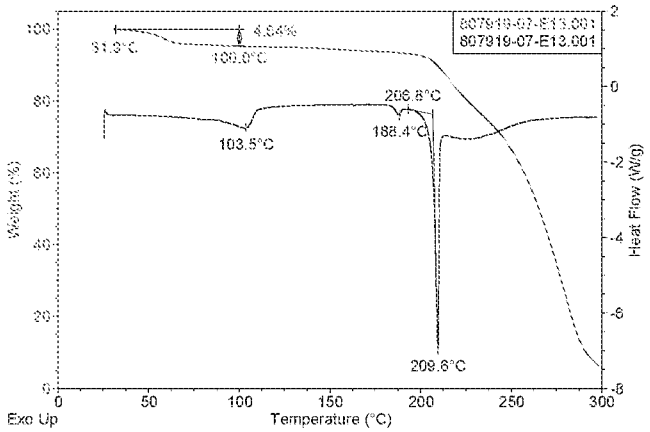


FIG. 100

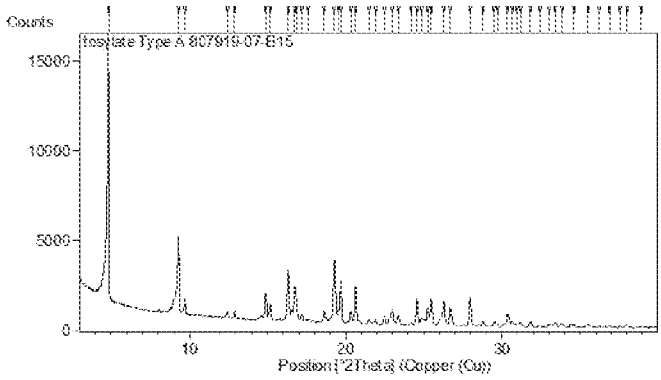


FIG. 101

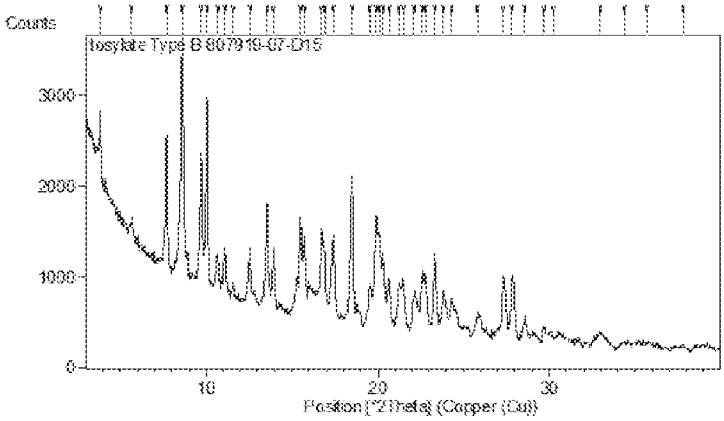


FIG. 102

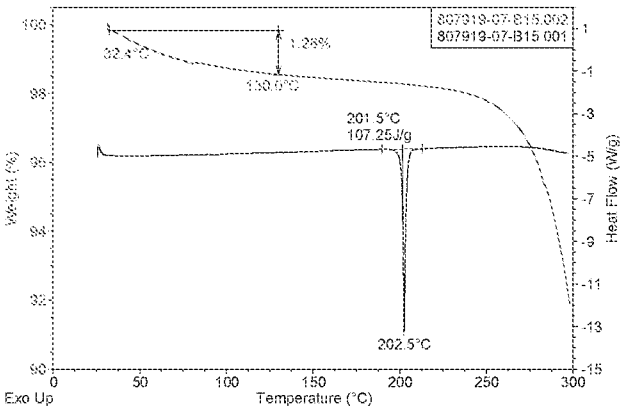


FIG. 103

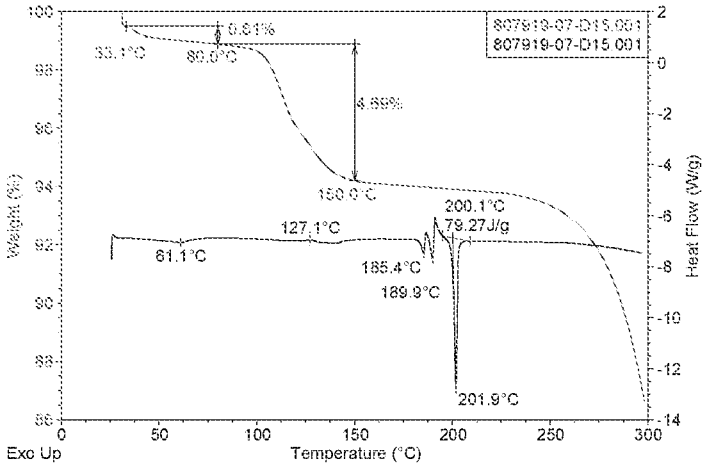


FIG. 104

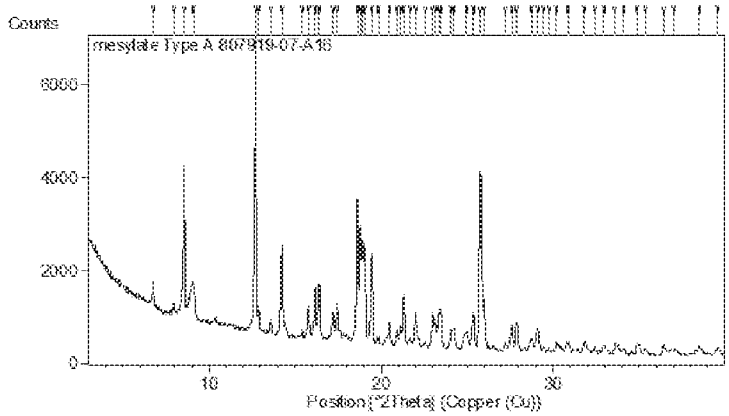


FIG. 105

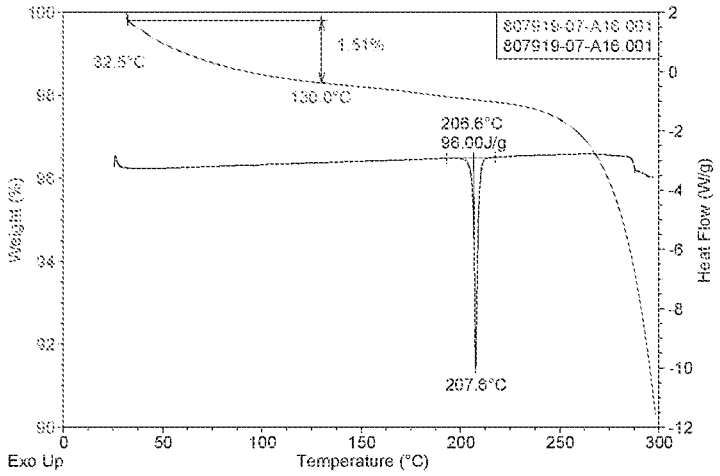


FIG. 106

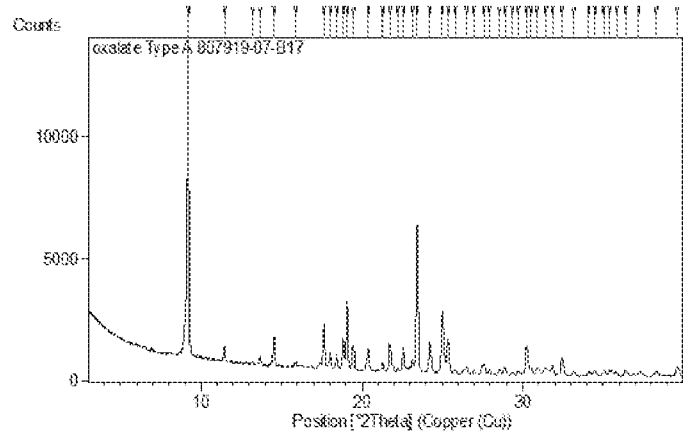


FIG. 107

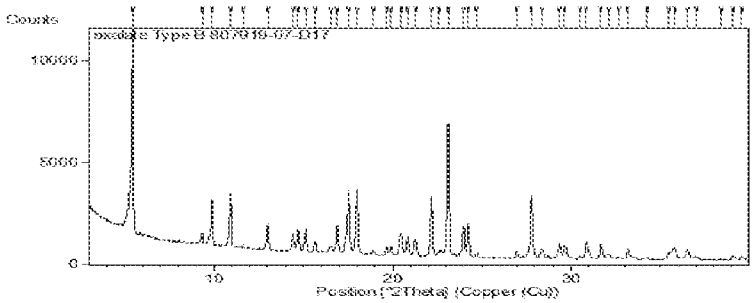


FIG. 108

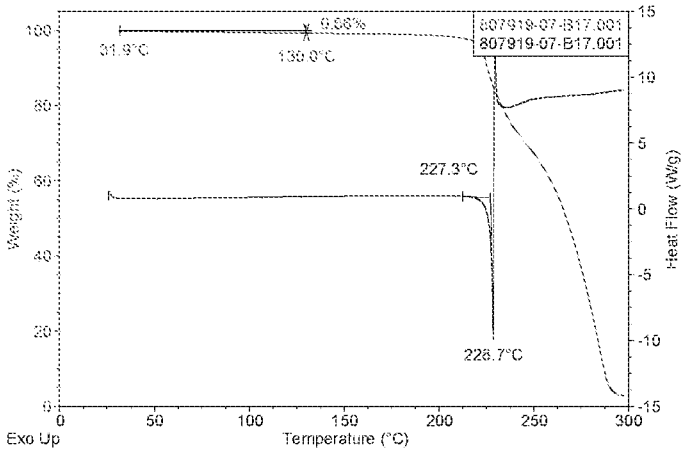


FIG. 109

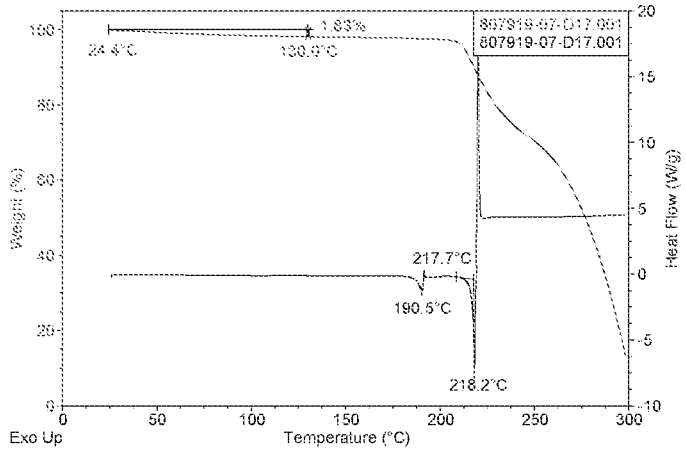


FIG. 110

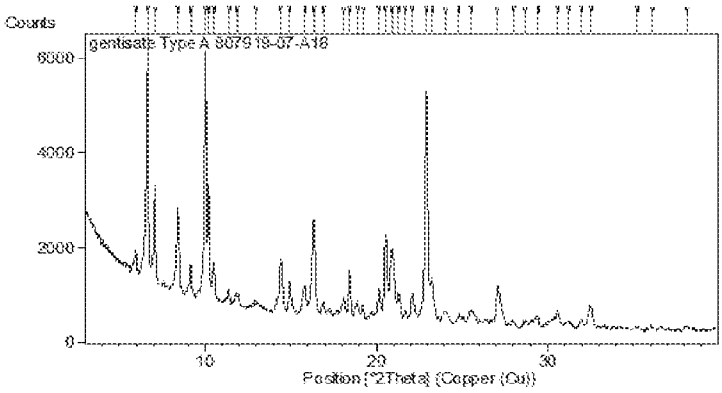


FIG. 111

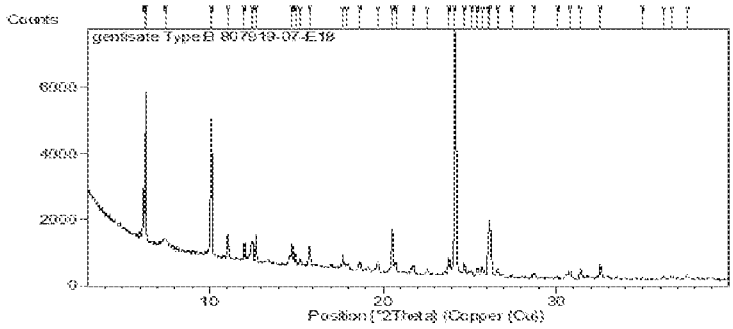


FIG. 112

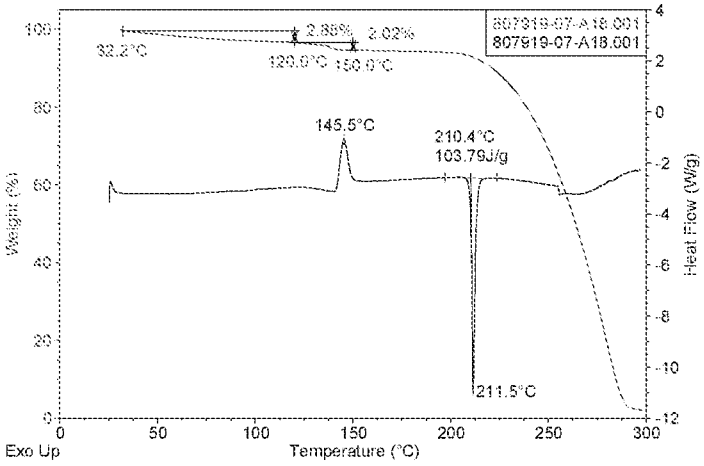


FIG. 113

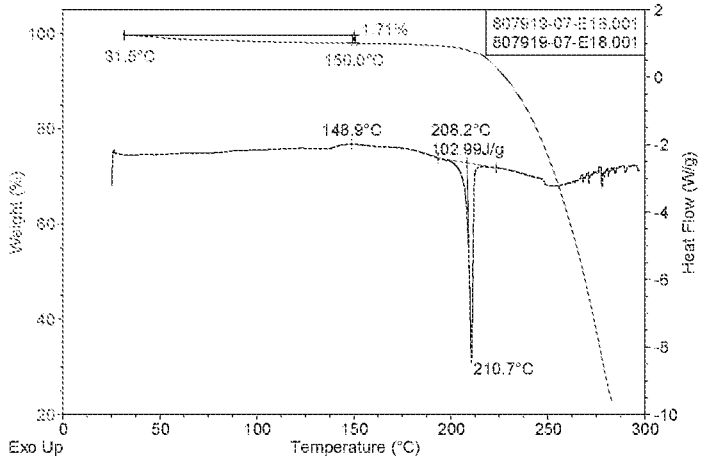


FIG. 114

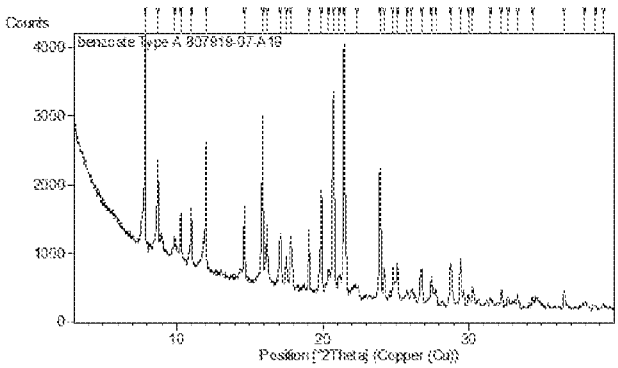


FIG. 115

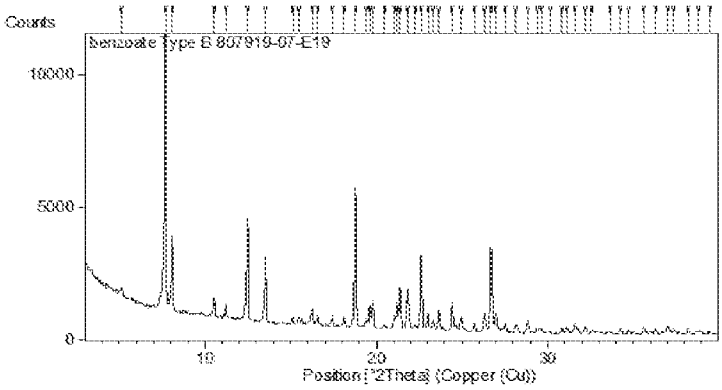


FIG. 116

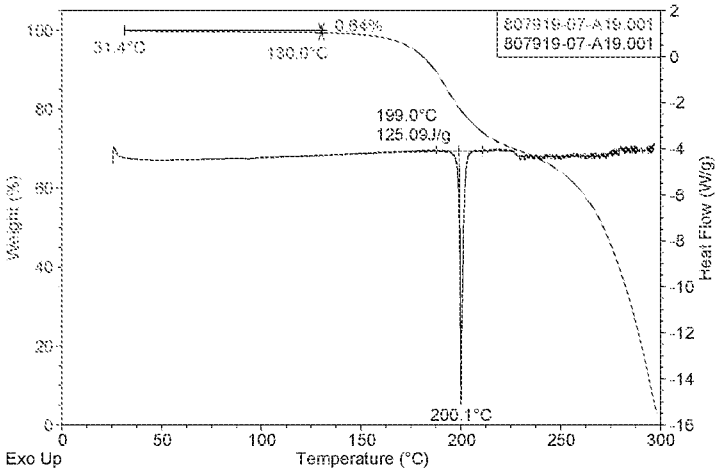


FIG. 117

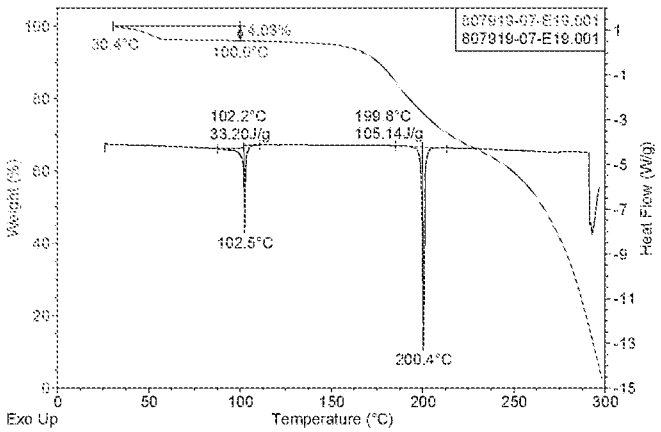


FIG. 118

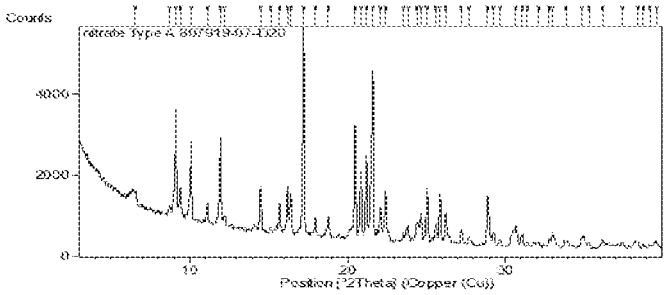


FIG. 119

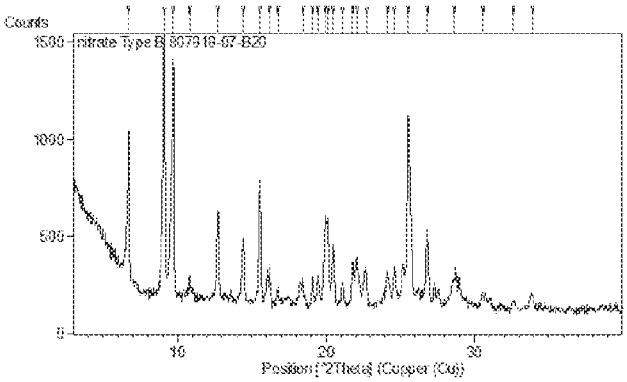


FIG. 120

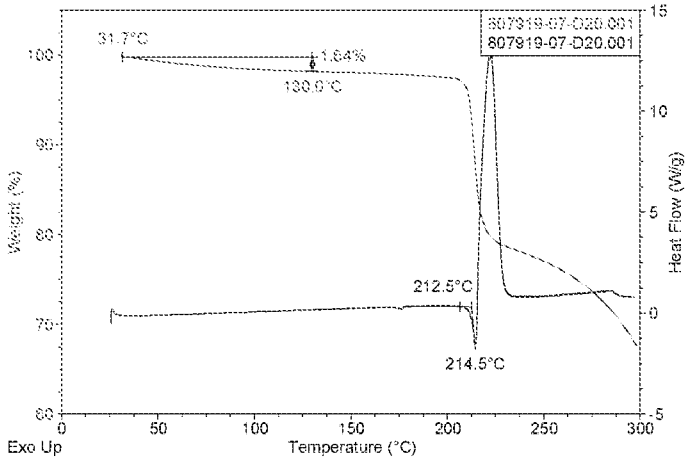


FIG. 121

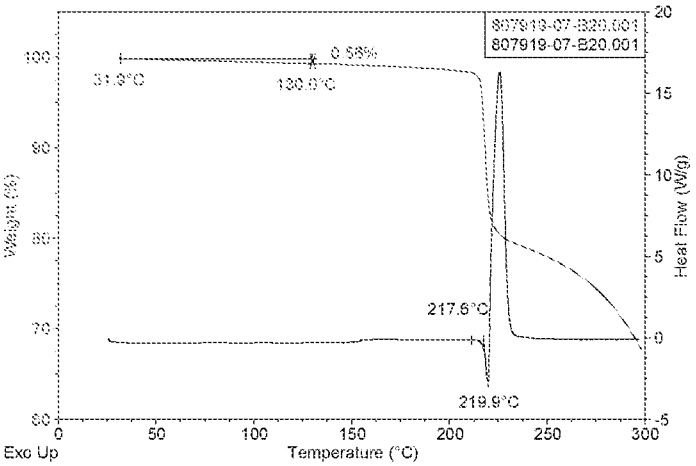


FIG. 122

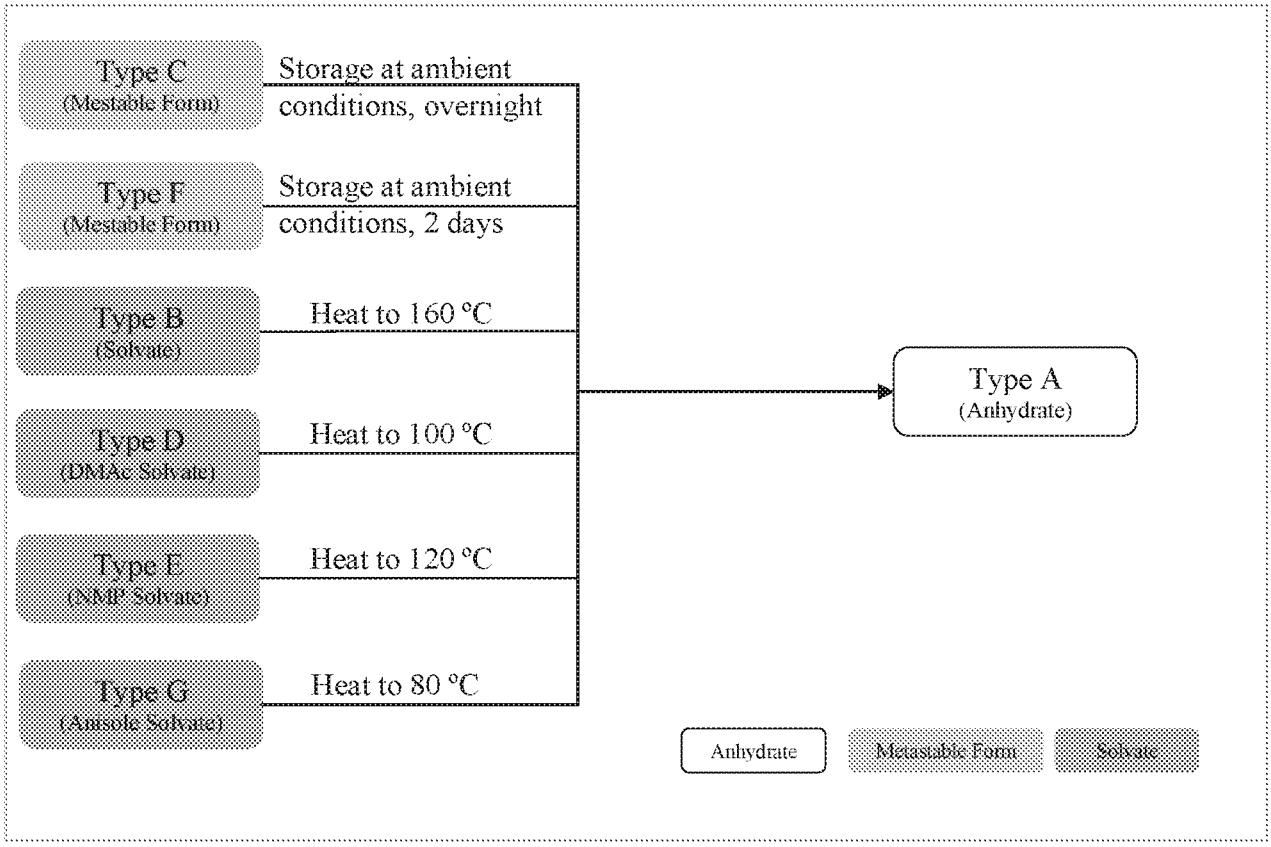


FIG. 123

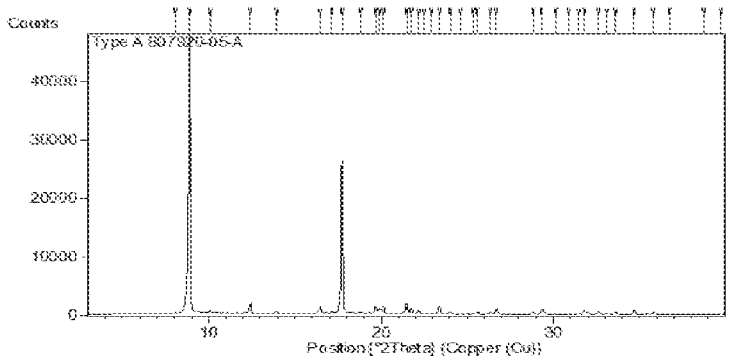


FIG. 124

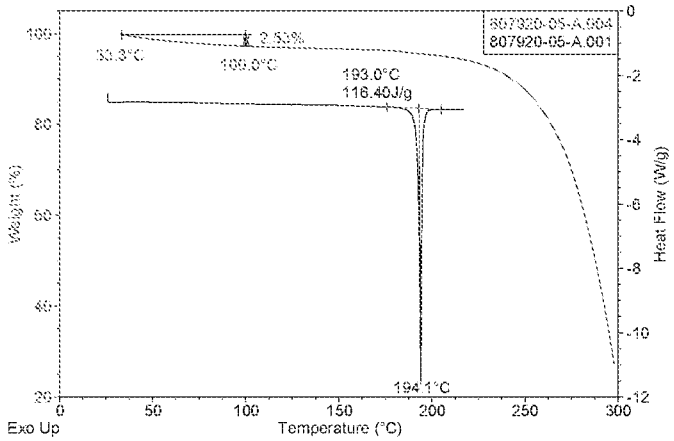


FIG. 125

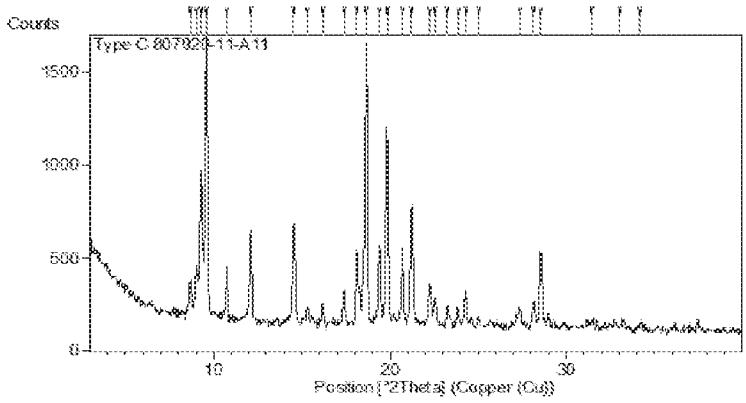


FIG. 126

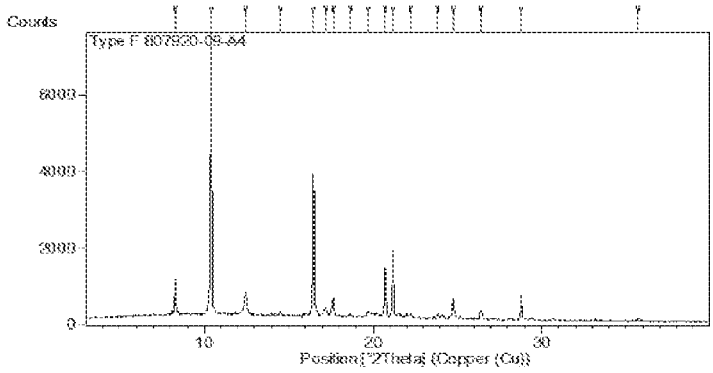


FIG. 127

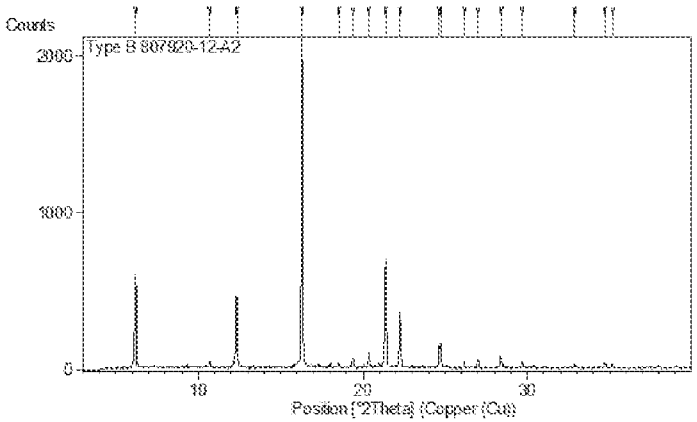


FIG. 128

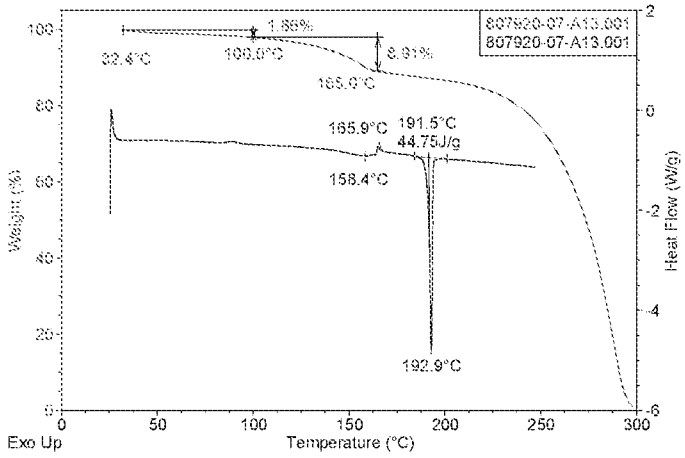


FIG. 129

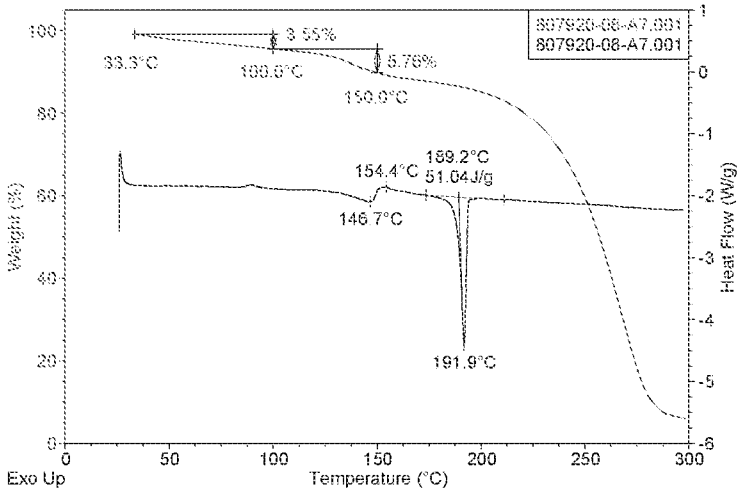


FIG. 130

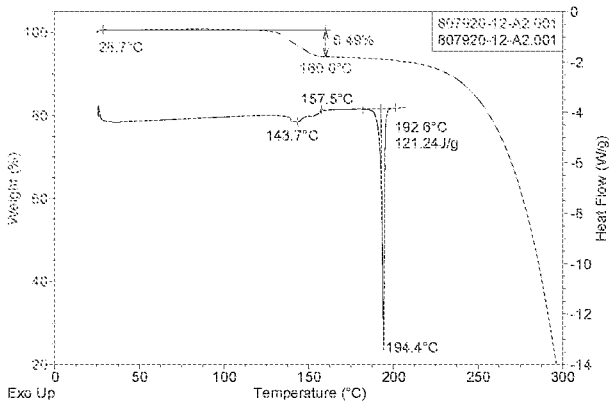


FIG. 131

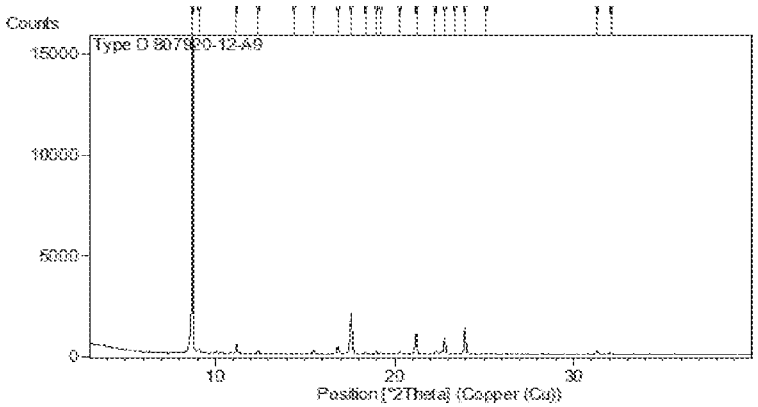


FIG. 132

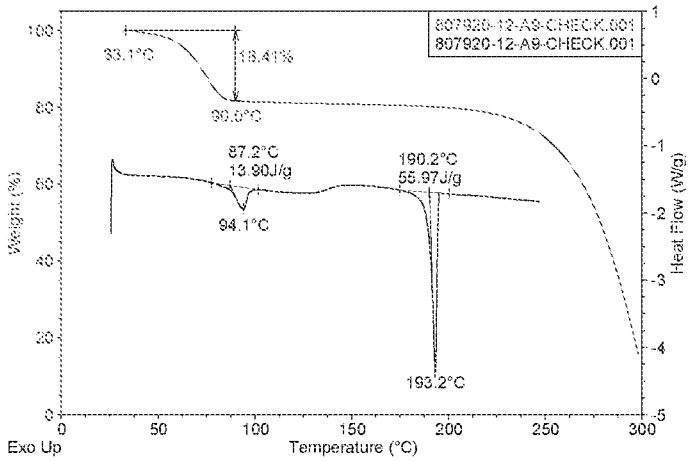


FIG. 133

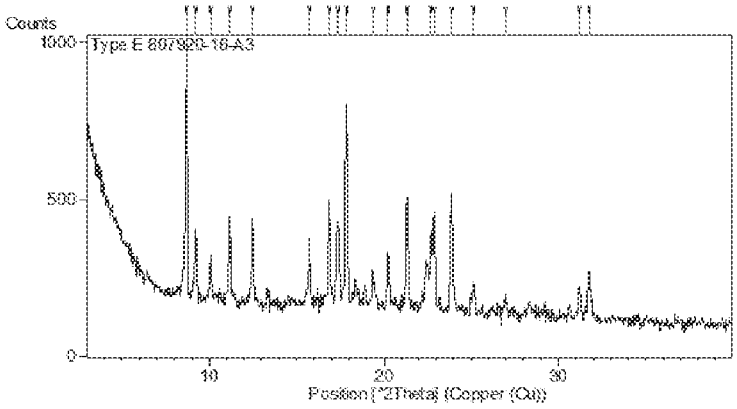


FIG. 134

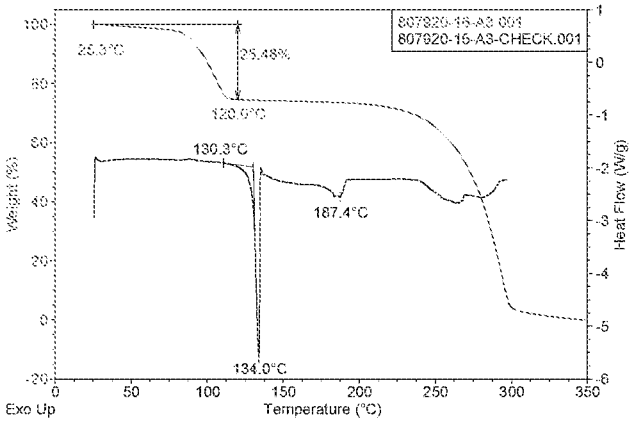


FIG. 135

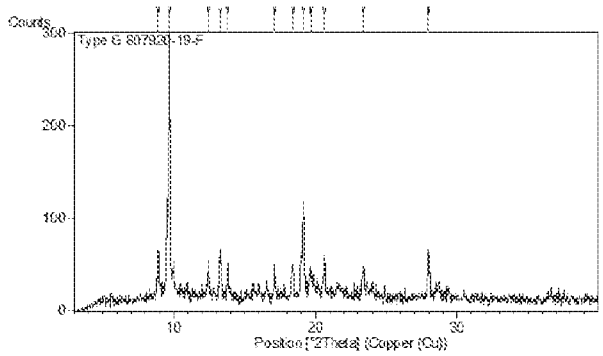


FIG. 136

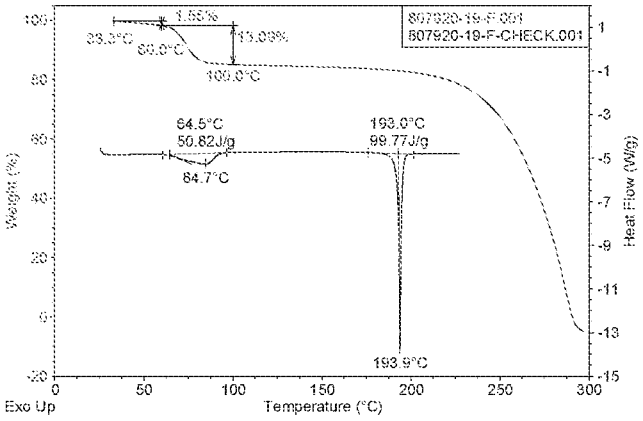


FIG. 137

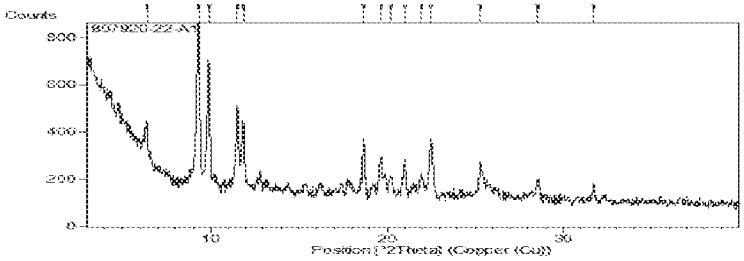


FIG. 138

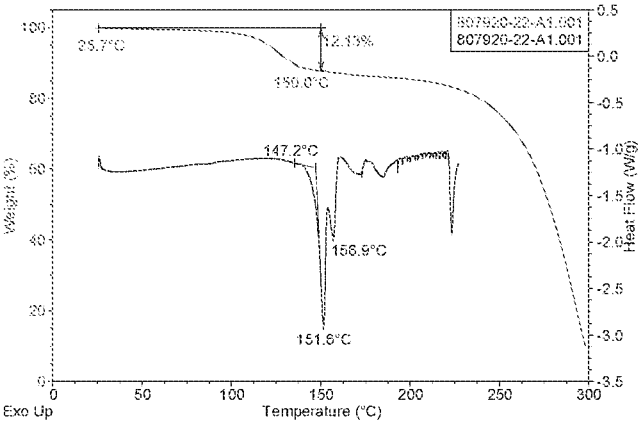


FIG. 139

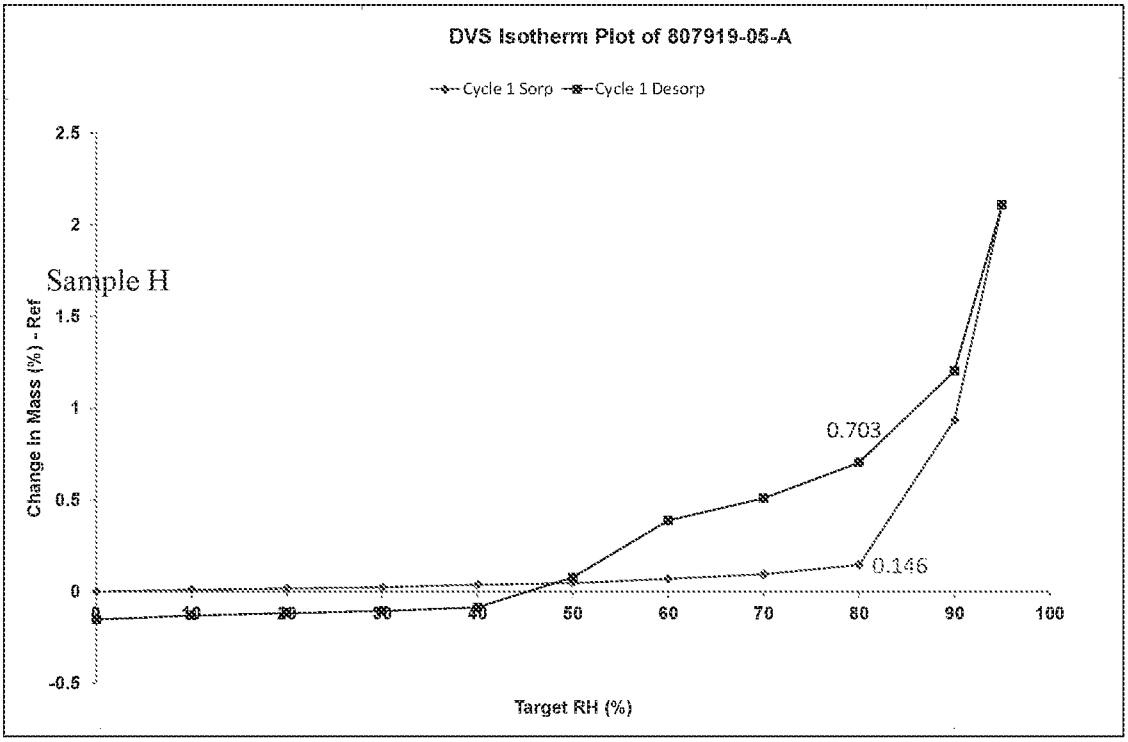


FIG. 140

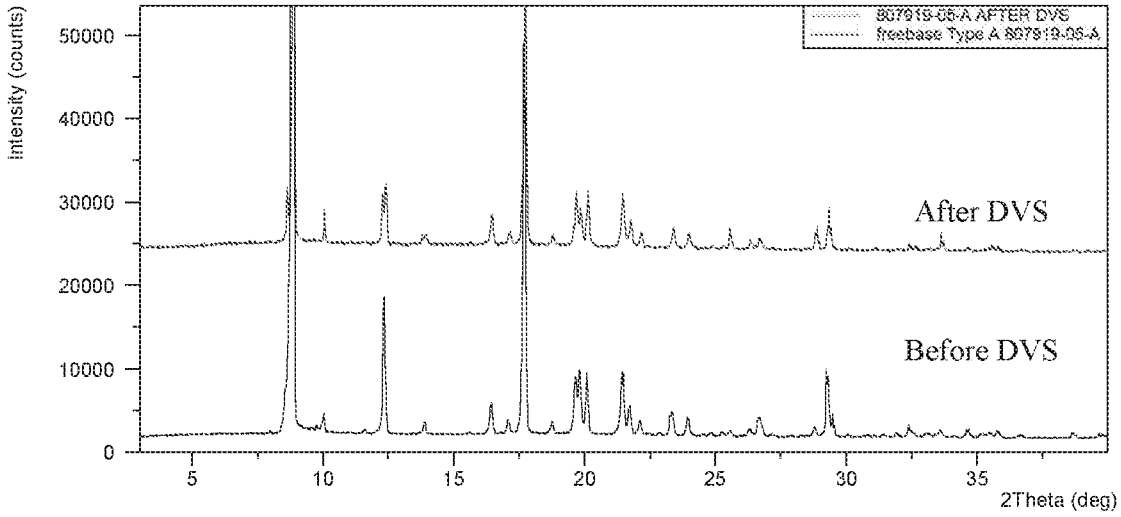


FIG. 141

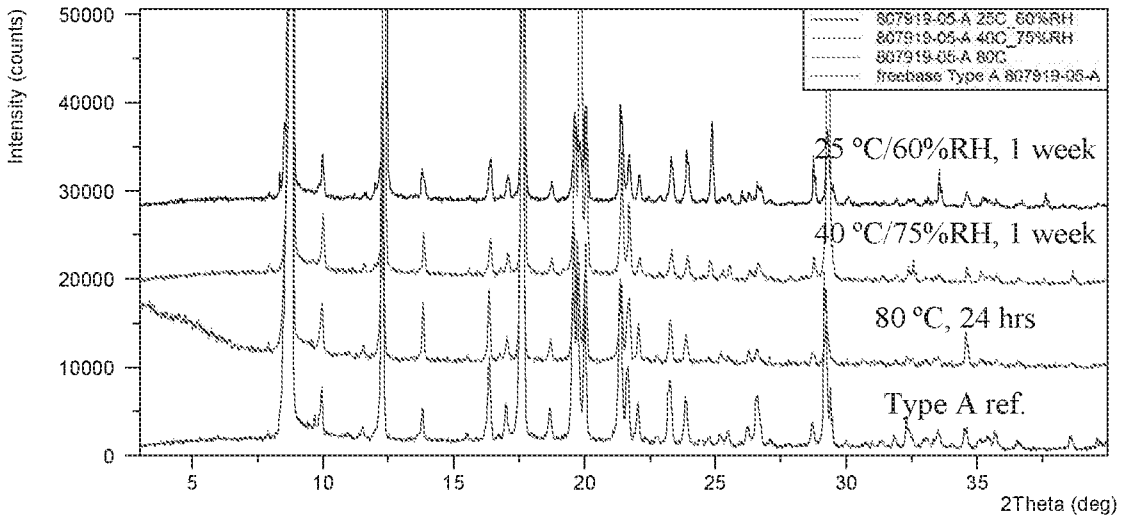

Intensity (counts)
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40000
30000
20000
10000
0
5
10
15
20
25
30
35
2Theta (deg)
807919-05-A 25C_60%RH
807919-05-A 40C_75%RH
807919-05-A 80C
freebase Type A 807919-05-A
25 °C/60%RH, 1 week
40 °C/75%RH, 1 week
80 °C, 24 hrs
Type A ref.

FIG. 142