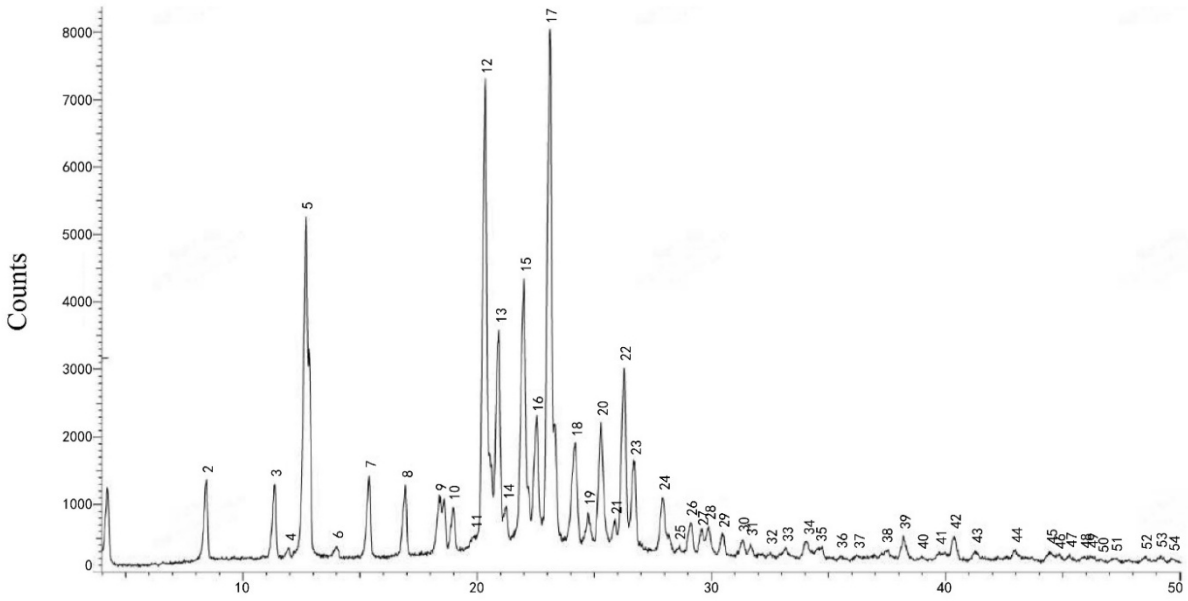

Counts
8000
7000
6000
5000
4000
3000
2000
1000
0
10
20
30
40
50

FIG. 1

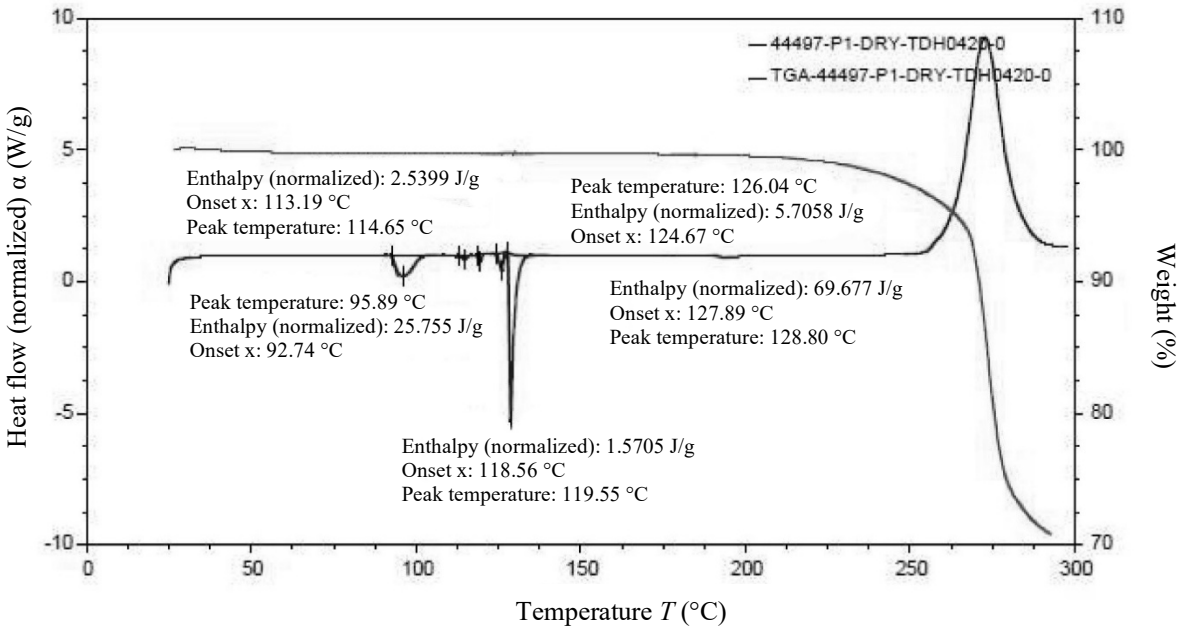

44497-P1-DRY-TDH0420-0
TGA-44497-P1-DRY-TDH0420-0
Enthalpy (normalized): 2.5399 J/g
Onset x: 113.19 °C
Peak temperature: 114.65 °C
Peak temperature: 126.04 °C
Enthalpy (normalized): 5.7058 J/g
Onset x: 124.67 °C
Peak temperature: 95.89 °C
Enthalpy (normalized): 25.755 J/g
Onset x: 92.74 °C
Enthalpy (normalized): 69.677 J/g
Onset x: 127.89 °C
Peak temperature: 128.80 °C
Enthalpy (normalized): 1.5705 J/g
Onset x: 118.56 °C
Peak temperature: 119.55 °C
Heat flow (normalized) α (W/g)
Weight (%)
Temperature T (°C)

FIG. 2

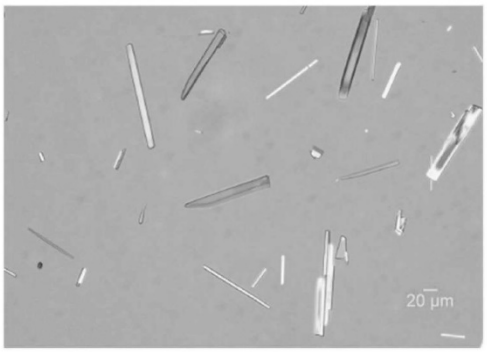

20 µm

FIG. 3

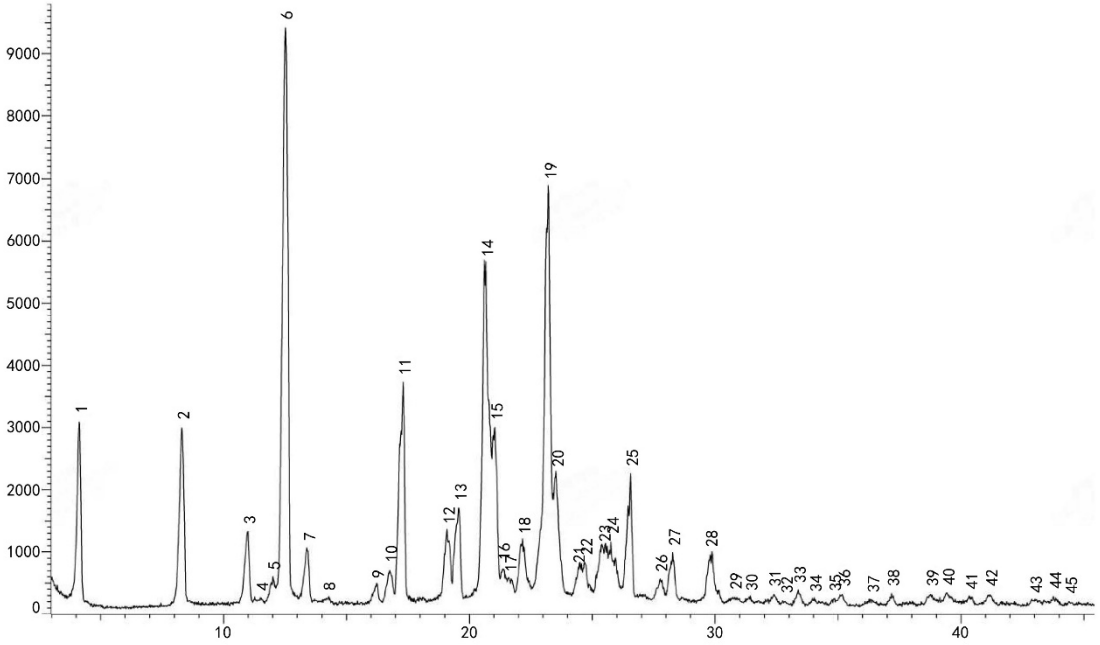

9000
8000
7000
6000
5000
4000
3000
2000
1000
0
10
20
30
40
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45

FIG. 4

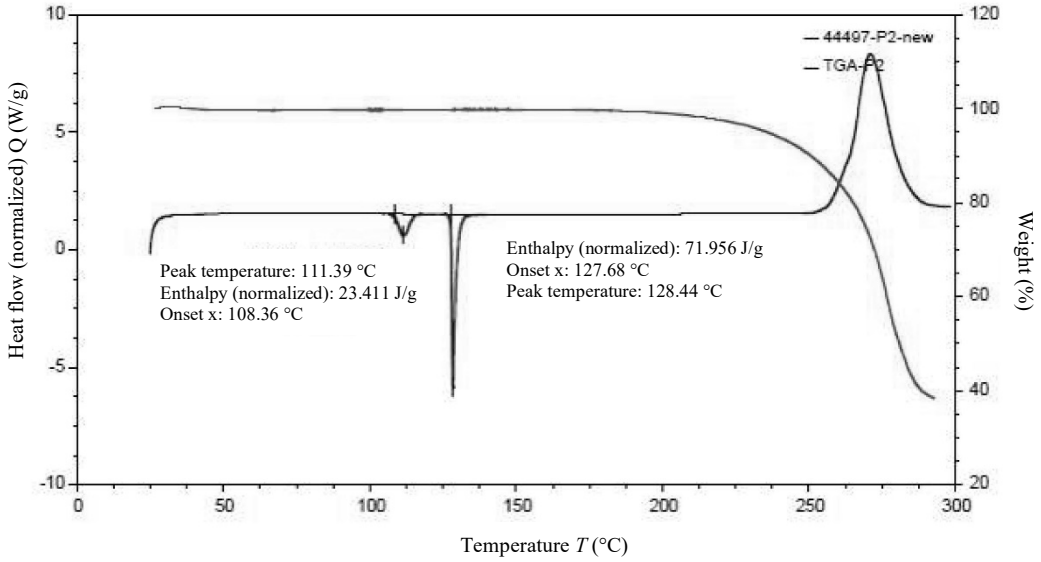

44497-P2-new
TGA-P2
Peak temperature: 111.39 °C
Enthalpy (normalized): 23.411 J/g
Onset x: 108.36 °C
Enthalpy (normalized): 71.956 J/g
Onset x: 127.68 °C
Peak temperature: 128.44 °C
Heat flow (normalized) Q (W/g)
Weight (%)
Temperature T (°C)
10
5
0
-5
-10
120
100
80
60
40
20
0
50
100
150
200
250
300

FIG. 5

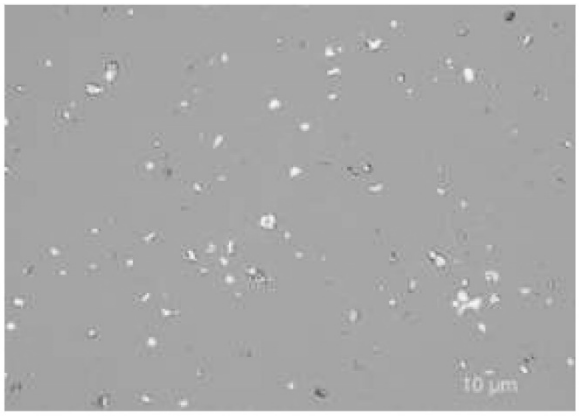

10 µm

FIG. 6

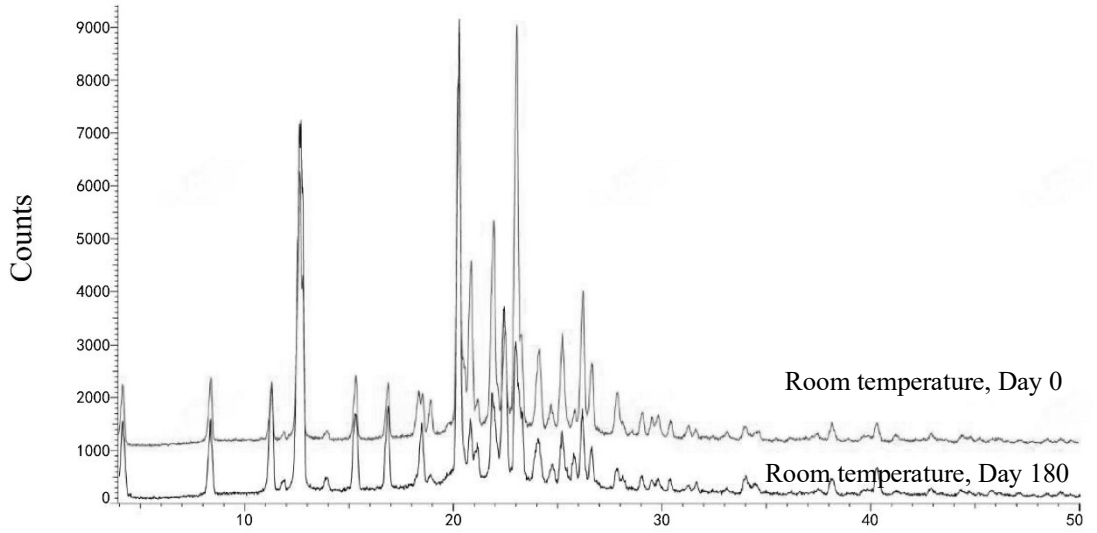

Counts
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
10
20
30
40
50
Room temperature, Day 0
Room temperature, Day 180

FIG. 7

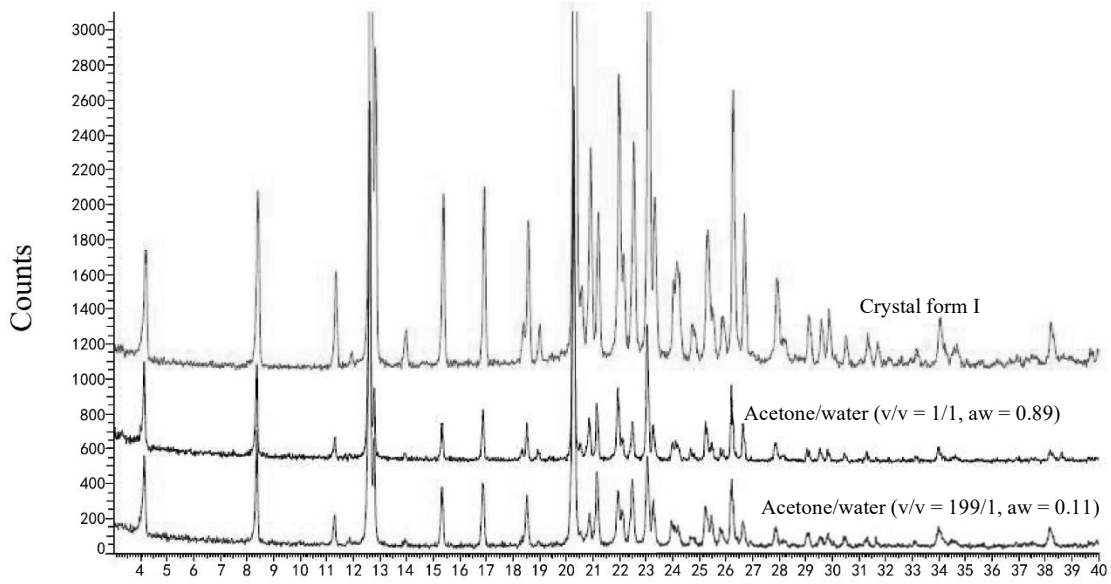

Counts
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
Crystal form I
Acetone/water (v/v = 1/1, aw = 0.89)
Acetone/water (v/v = 199/1, aw = 0.11)

FIG. 8

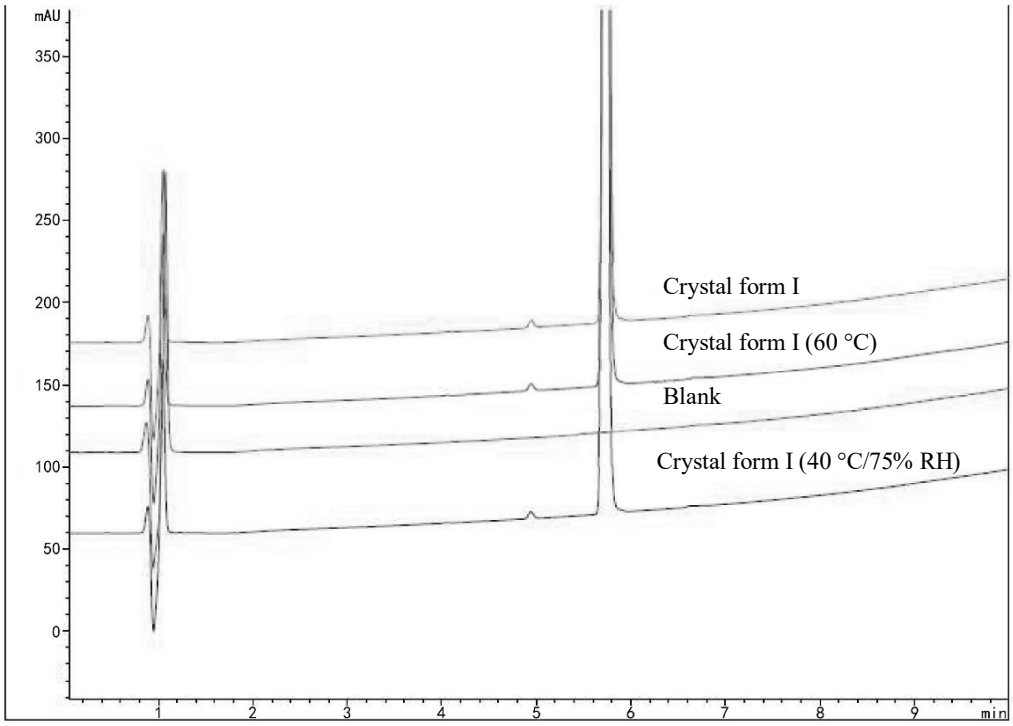

mAU
350
300
250
200
150
100
50
0
1
2
3
4
5
6
7
8
9
min
Crystal form I
Crystal form I (60 °C)
Blank
Crystal form I (40 °C/75% RH)

FIG. 9

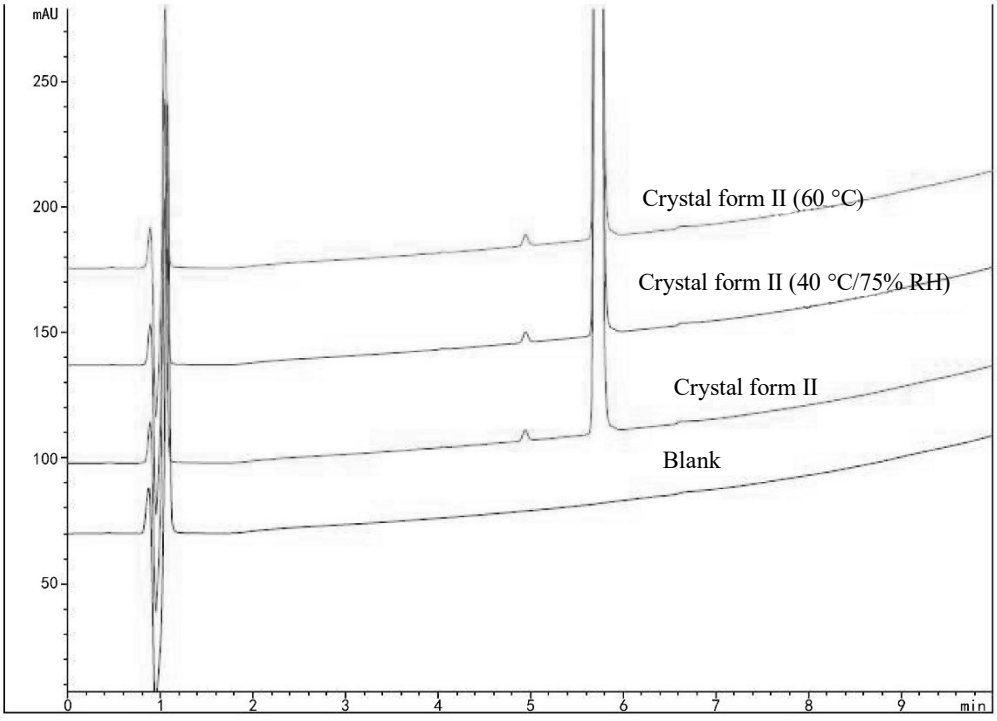

mAU
250
200
150
100
50
0
1
2
3
4
5
6
7
8
9
min
Crystal form II (60 °C)
Crystal form II (40 °C/75% RH)
Crystal form II
Blank

FIG. 10

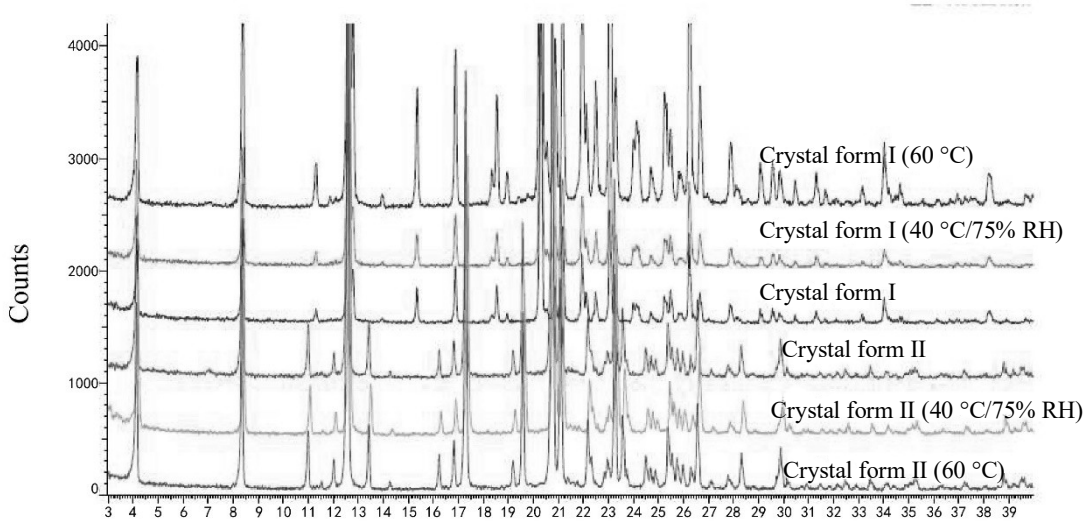

Counts
4000
3000
2000
1000
0
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39
Crystal form I (60 °C)
Crystal form I (40 °C/75% RH)
Crystal form I
Crystal form II
Crystal form II (40 °C/75% RH)
Crystal form II (60 °C)

FIG. 11

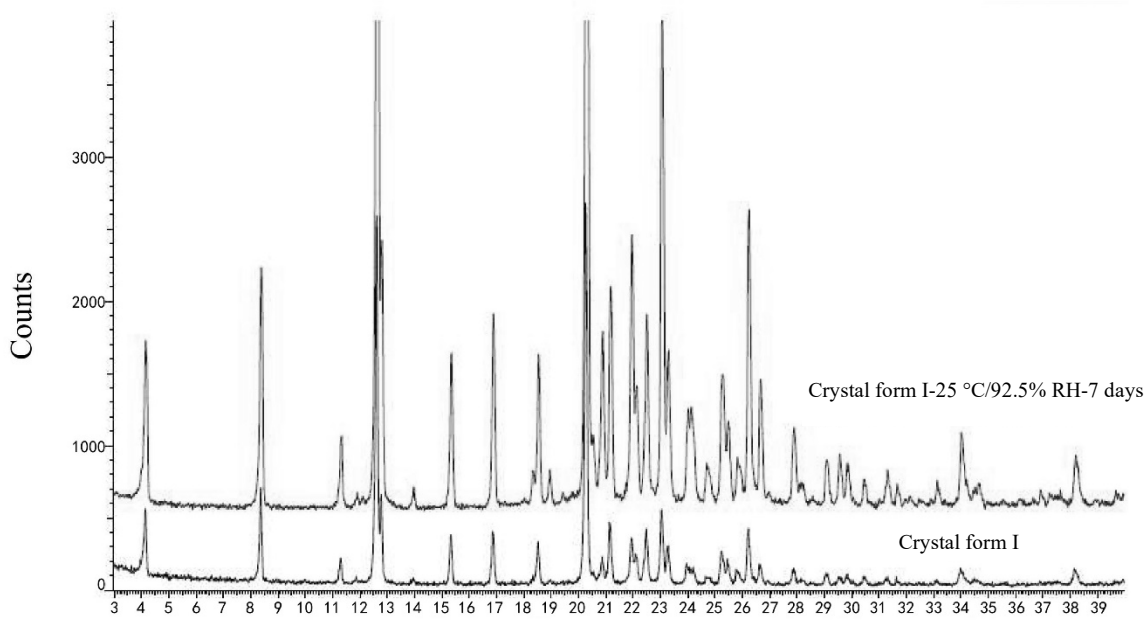

Counts
3000
2000
1000
0
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39
Crystal form I-25 °C/92.5% RH-7 days
Crystal form I

FIG. 12

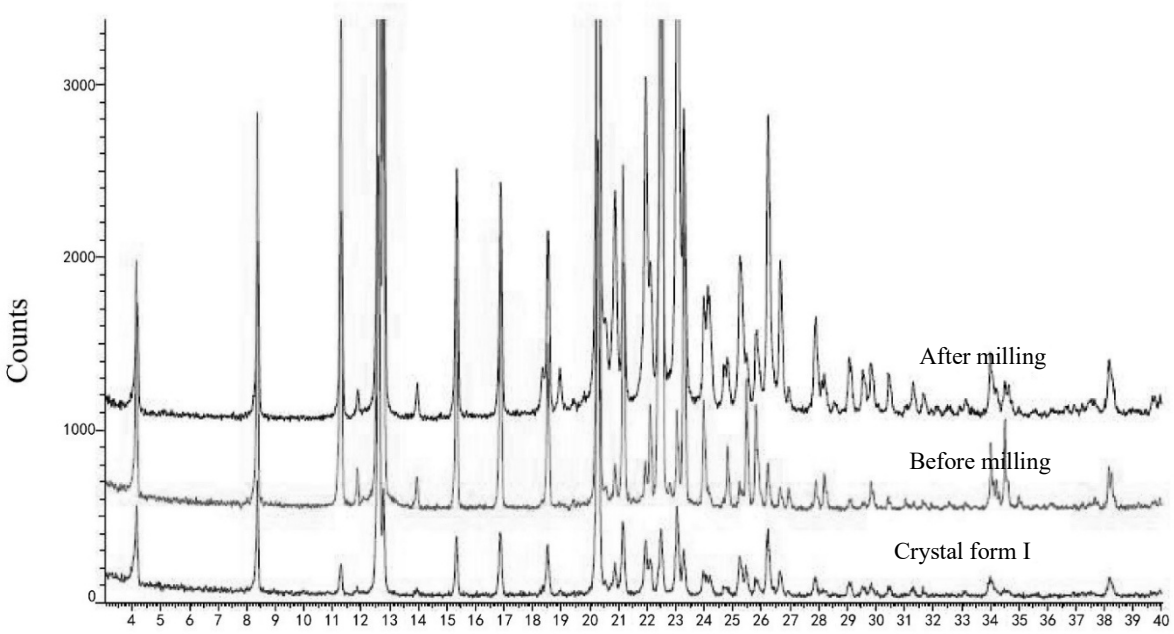

Counts
3000
2000
1000
0
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
After milling
Before milling
Crystal form I

FIG. 13

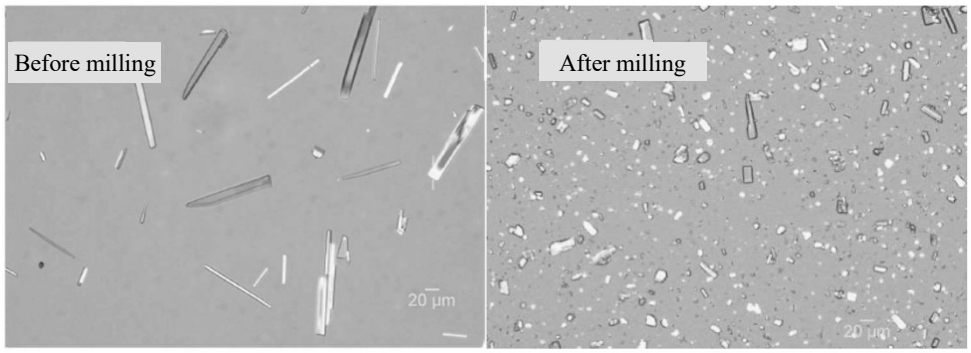

Before milling
20 µm
After milling
20 µm

FIG. 14

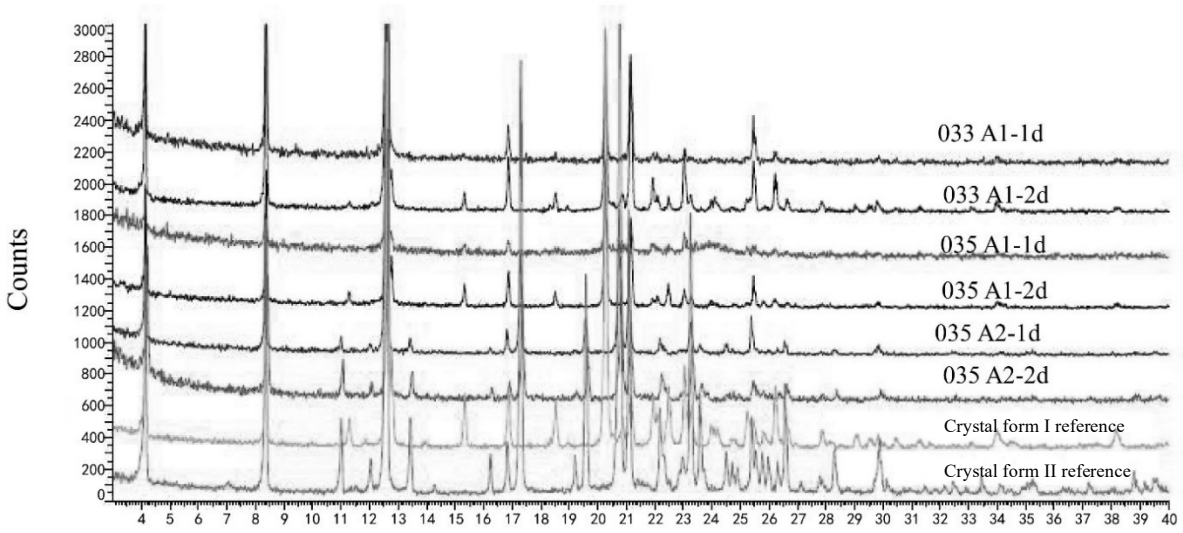

Counts
033 A1-1d
033 A1-2d
035 A1-1d
035 A1-2d
035 A2-1d
035 A2-2d
Crystal form I reference
Crystal form II reference

FIG. 15

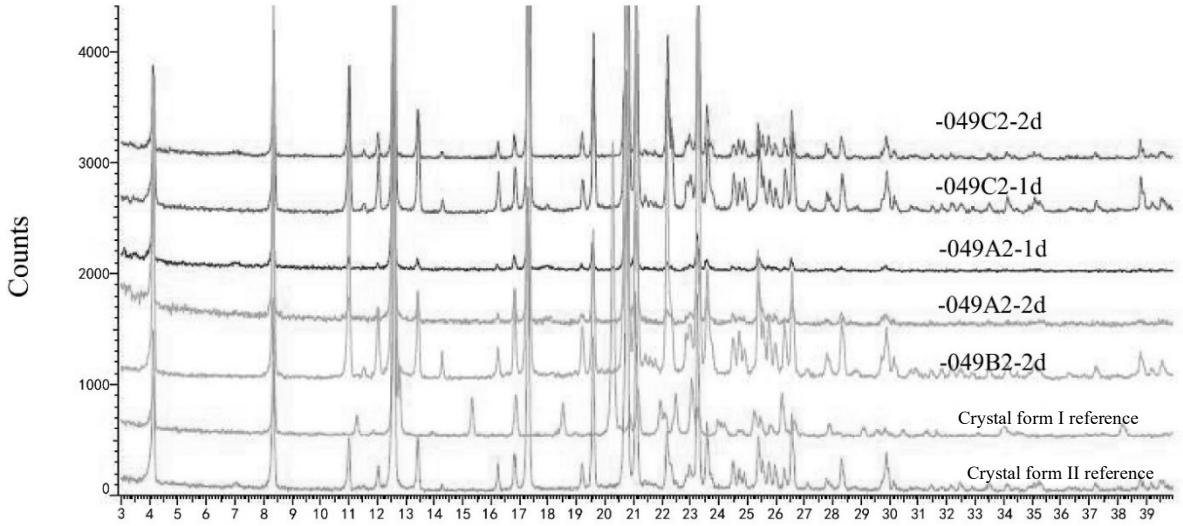

Counts
-049C2-2d
-049C2-1d
-049A2-1d
-049A2-2d
-049B2-2d
Crystal form I reference
Crystal form II reference

FIG. 16

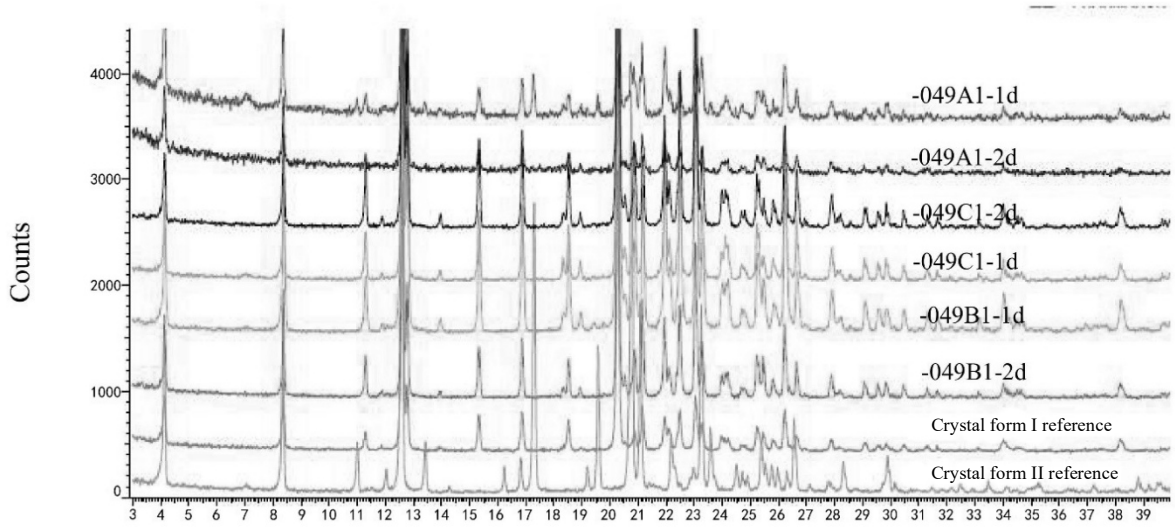

Counts
4000
3000
2000
1000
0
-049A1-1d
-049A1-2d
-049C1-2d
-049C1-1d
-049B1-1d
-049B1-2d
Crystal form I reference
Crystal form II reference
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

FIG. 17

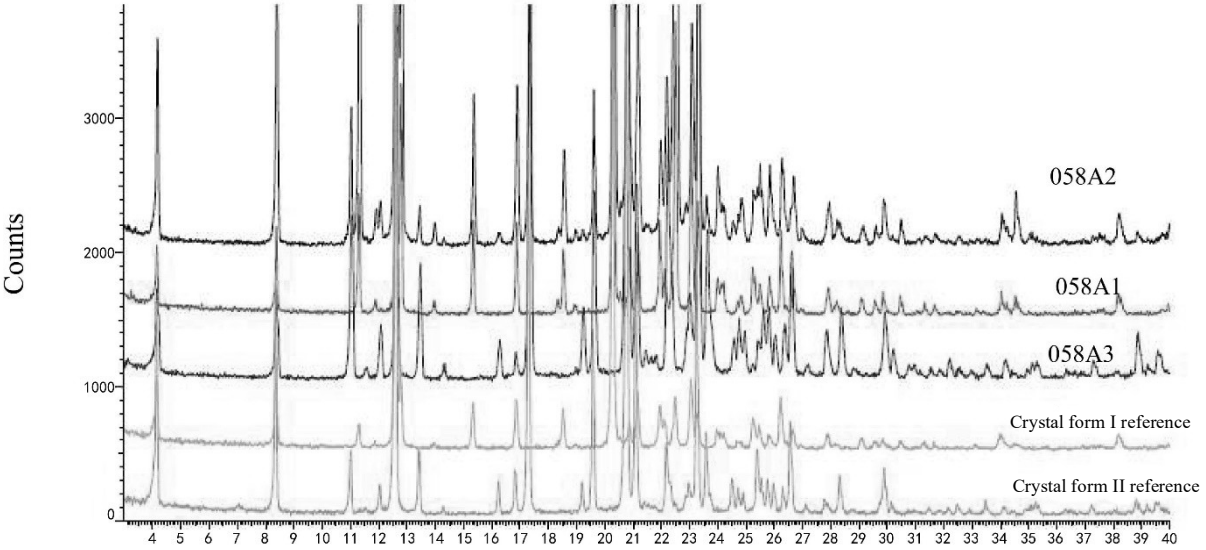

Counts
3000
2000
1000
0
058A2
058A1
058A3
Crystal form I reference
Crystal form II reference
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

FIG. 18

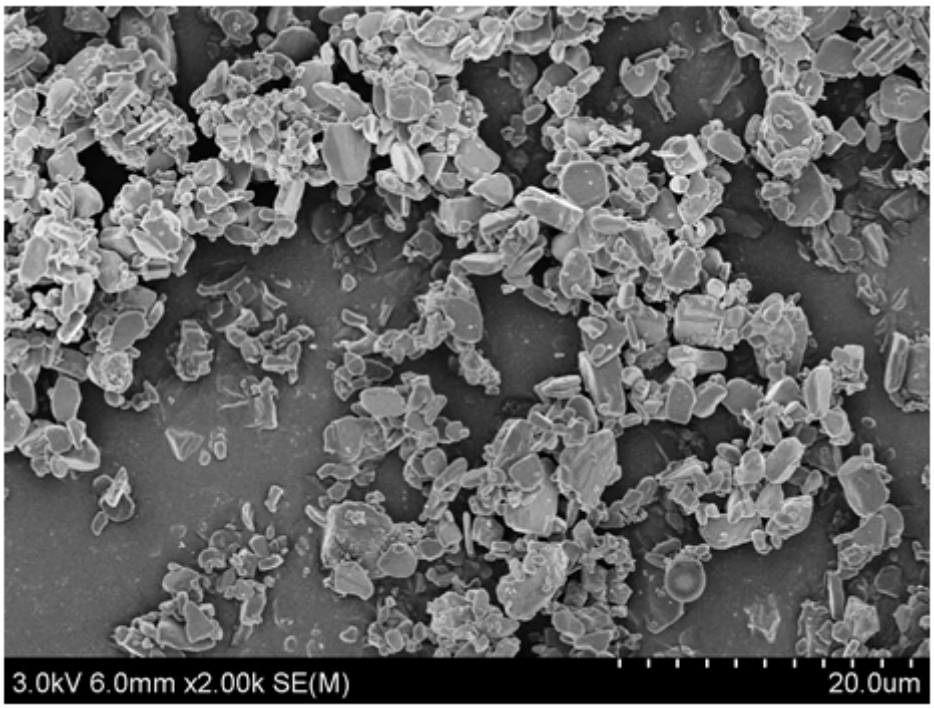


FIG. 19

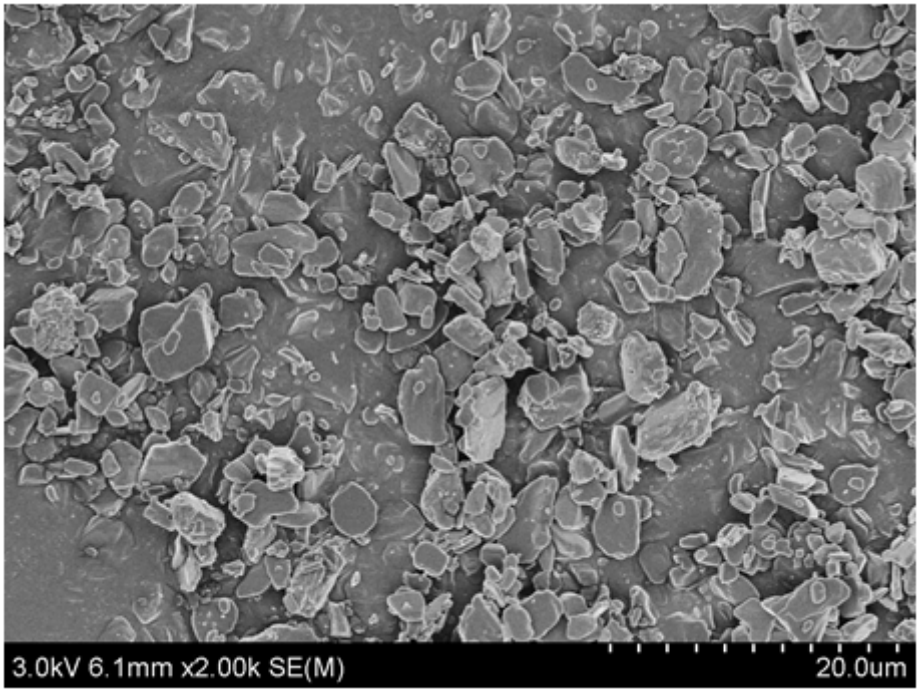


FIG. 20

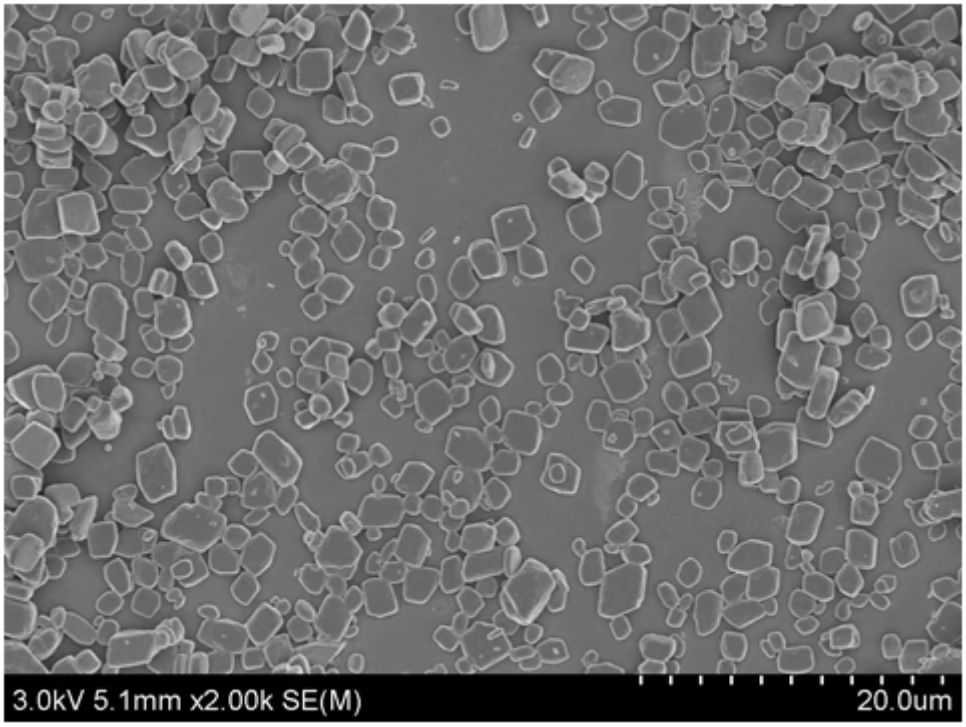


FIG. 21

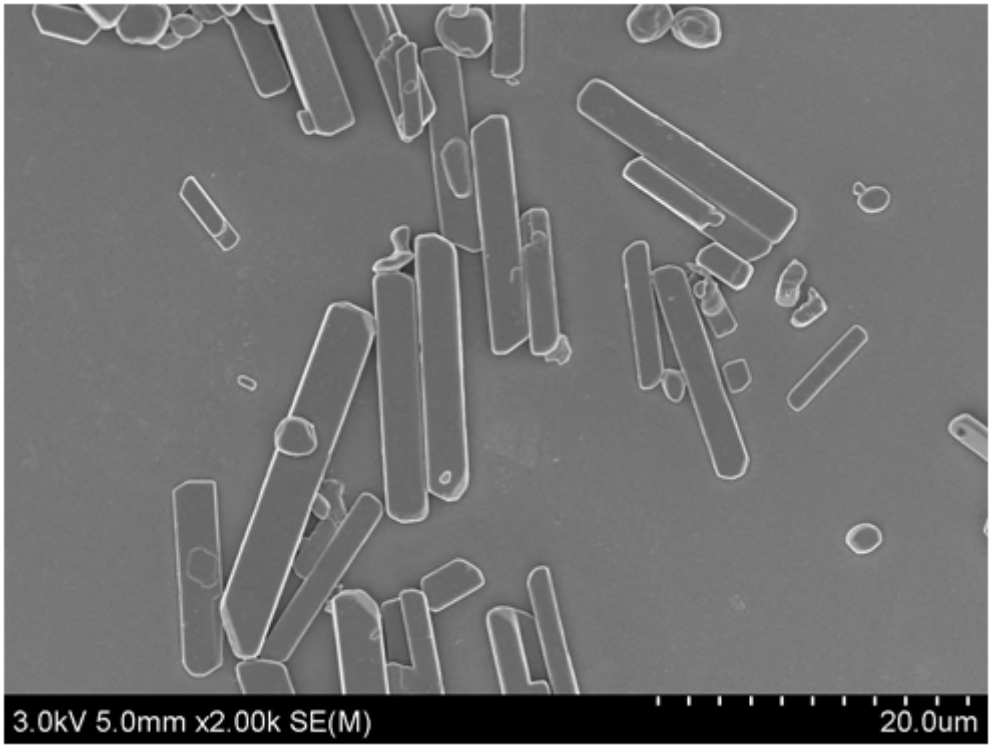


FIG. 22

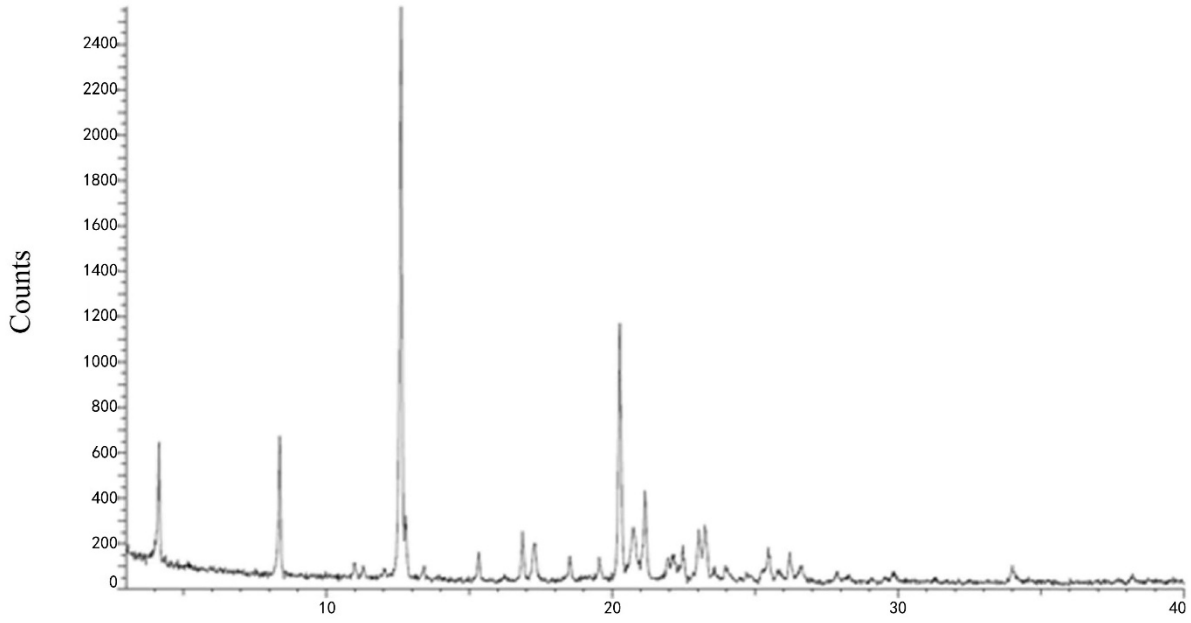

Counts
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
10
20
30
40

FIG. 23

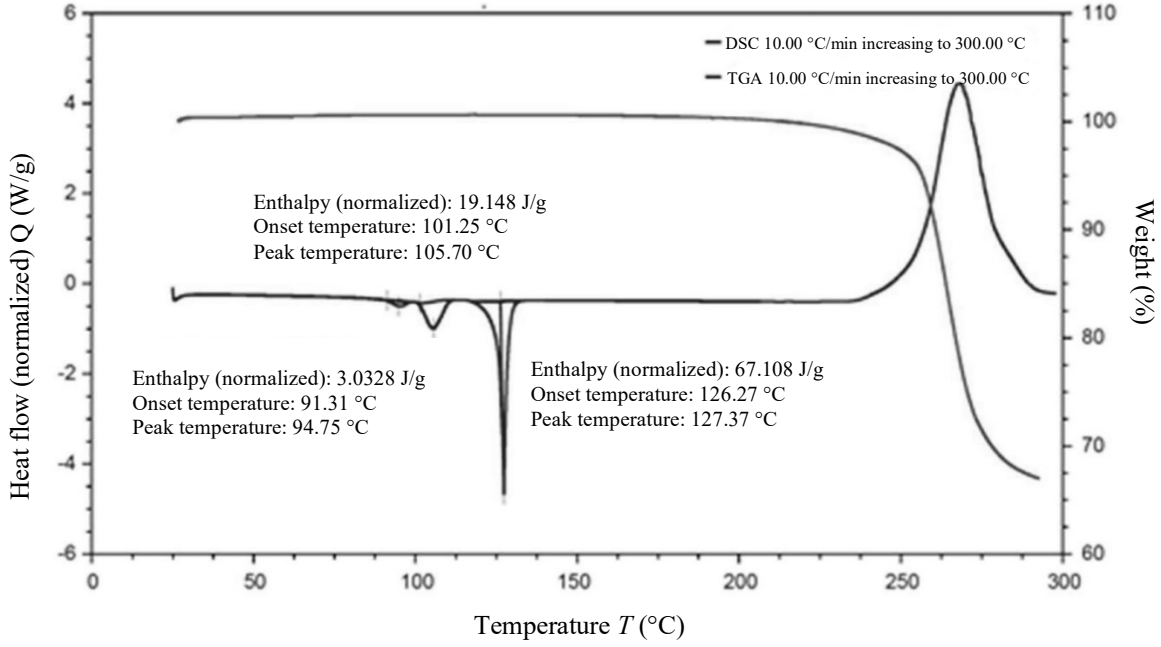

DSC 10.00 °C/min increasing to 300.00 °C
TGA 10.00 °C/min increasing to 300.00 °C
Enthalpy (normalized): 19.148 J/g
Onset temperature: 101.25 °C
Peak temperature: 105.70 °C
Enthalpy (normalized): 3.0328 J/g
Onset temperature: 91.31 °C
Peak temperature: 94.75 °C
Enthalpy (normalized): 67.108 J/g
Onset temperature: 126.27 °C
Peak temperature: 127.37 °C
Heat flow (normalized) Q (W/g)
Weight (%)
Temperature T (°C)
6
4
2
0
-2
-4
-6
110
100
90
80
70
60
0
50
100
150
200
250
300

FIG. 24