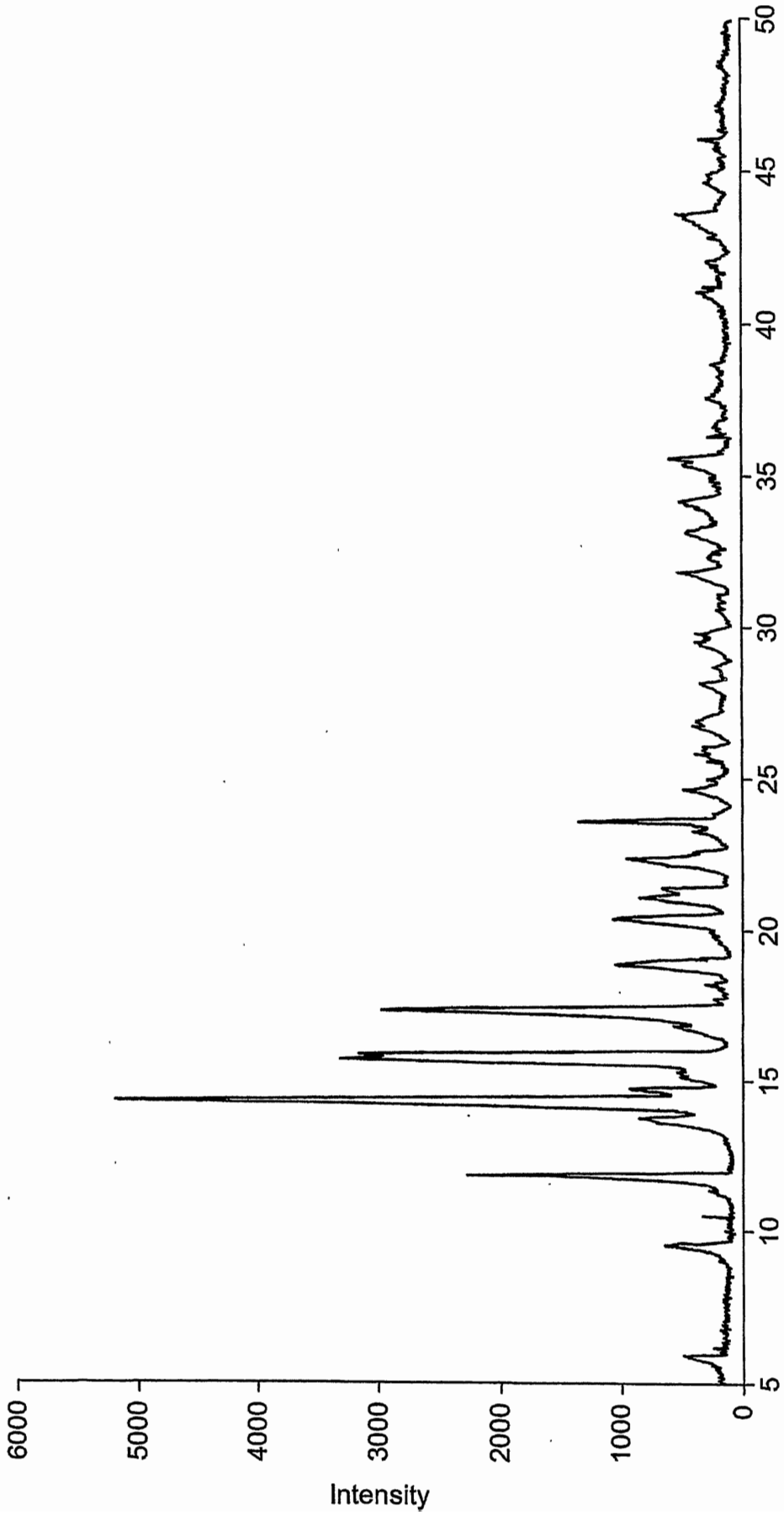
Intensity
6000
5000
4000
3000
2000
1000
0
5
10
15
20
25
30
35
40
45
50
Degrees (2 theta)

FIG. 1

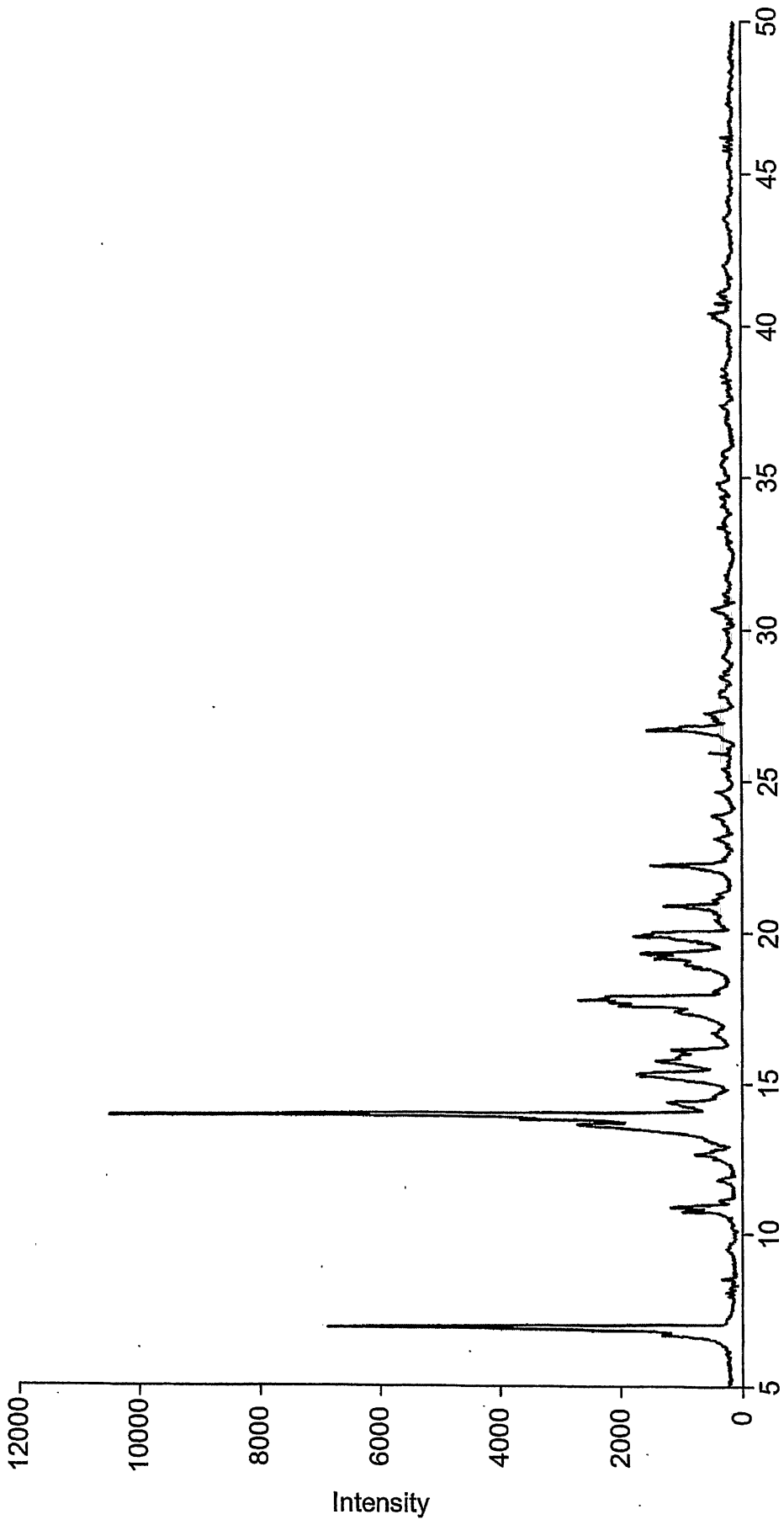
12000
10000
8000
6000
4000
2000
0
Intensity
5
10
15
20
25
30
35
40
45
50
Degrees (2 theta)

FIG. 2

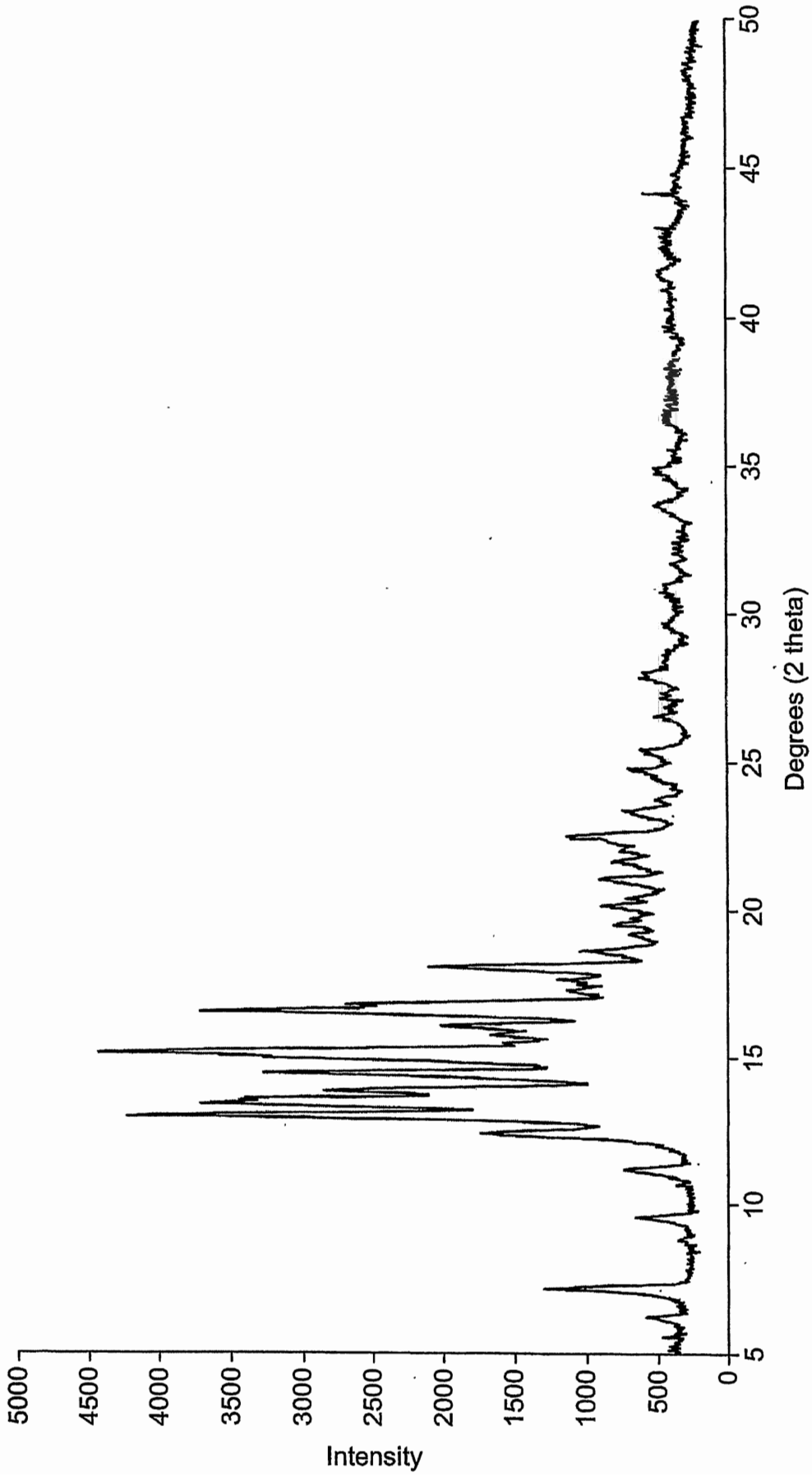
Intensity
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
5
10
15
20
25
30
35
40
45
50
Degrees (2 theta)

FIG. 3

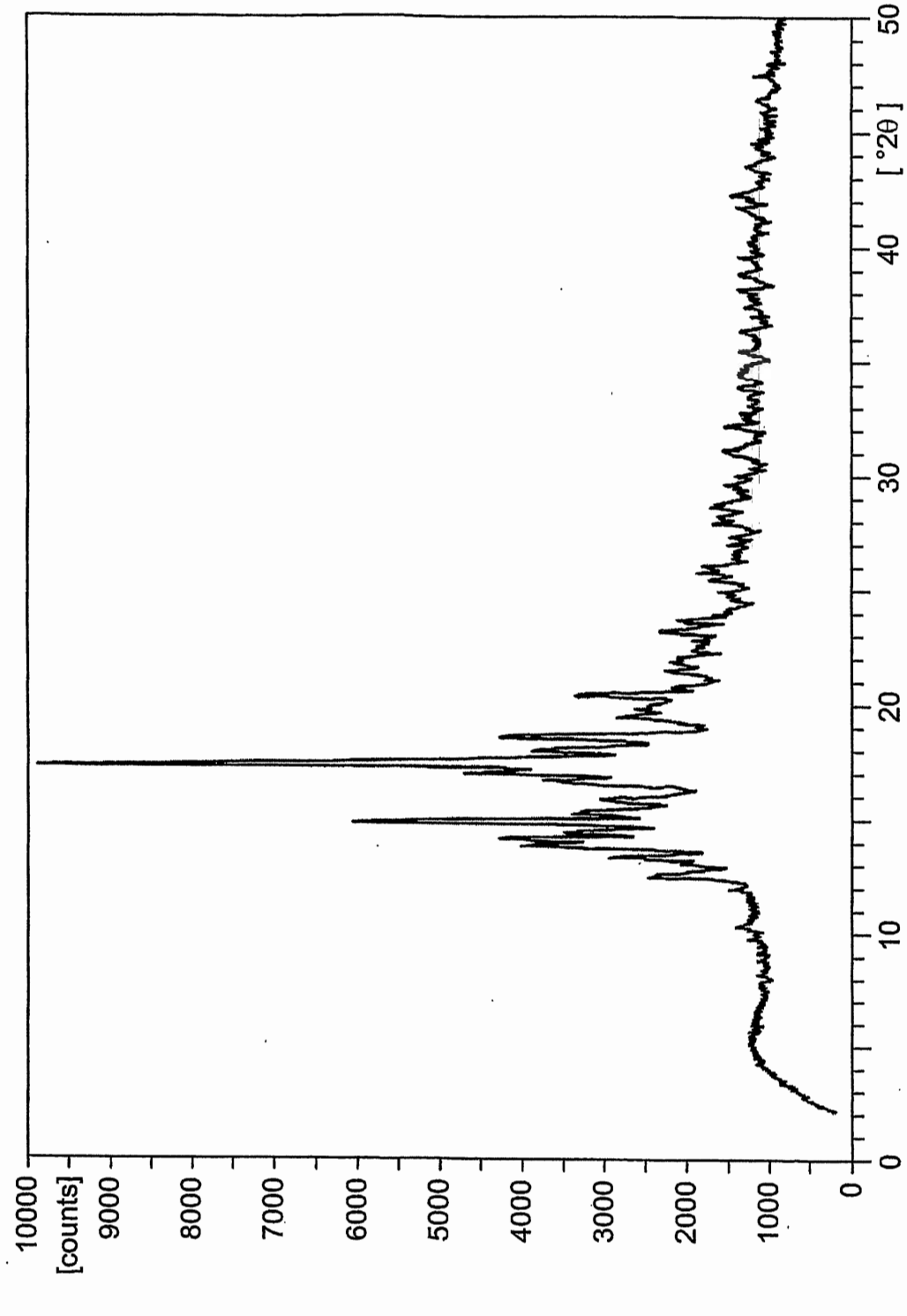
10000
[counts]
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
10
20
30
40
50
[°2θ]
2002253.RD

FIG. 4

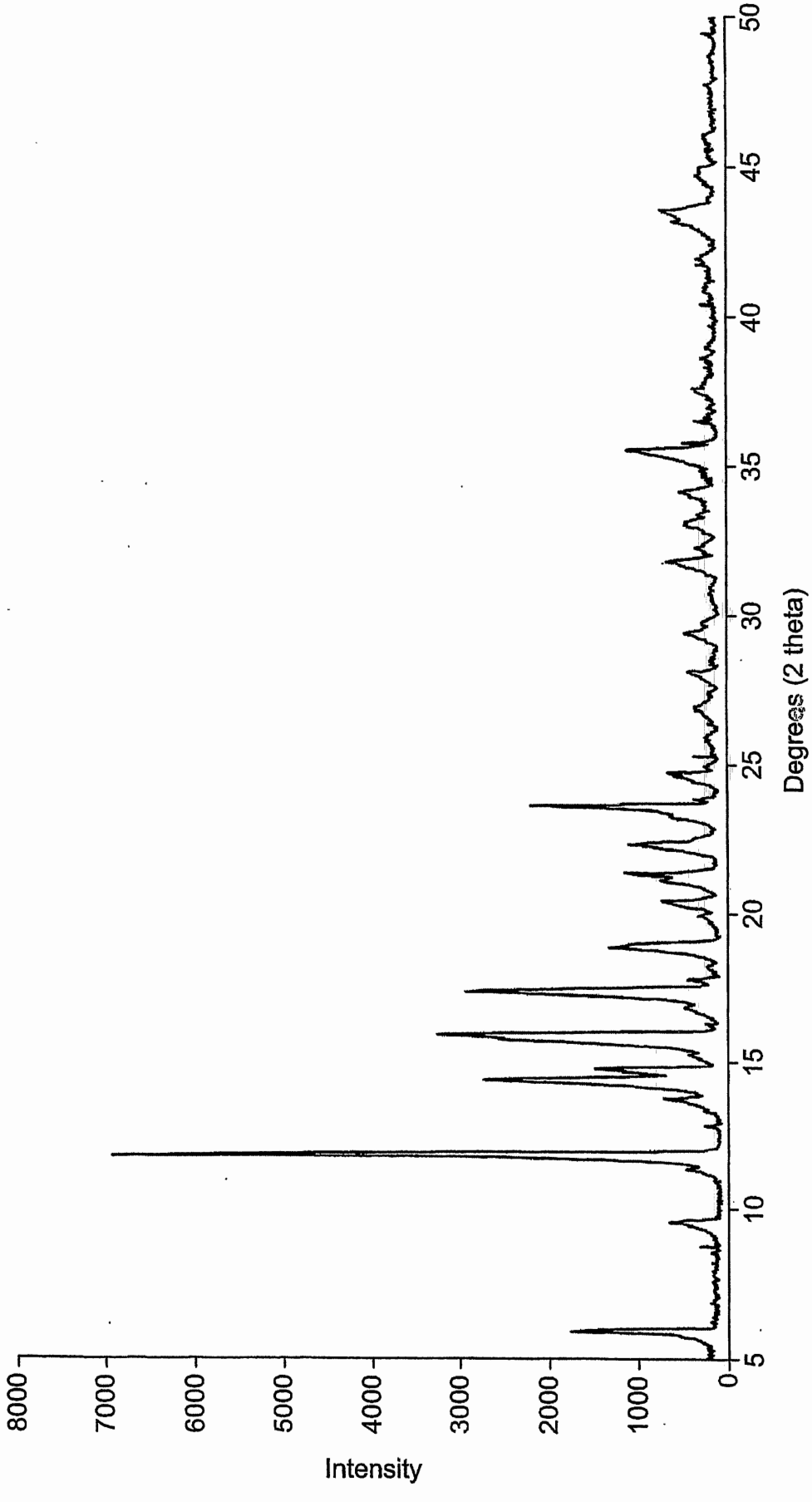
Intensity
8000
7000
6000
5000
4000
3000
2000
1000
0
5
10
15
20
25
30
35
40
45
50
Degrees (2 theta)

FIG. 5

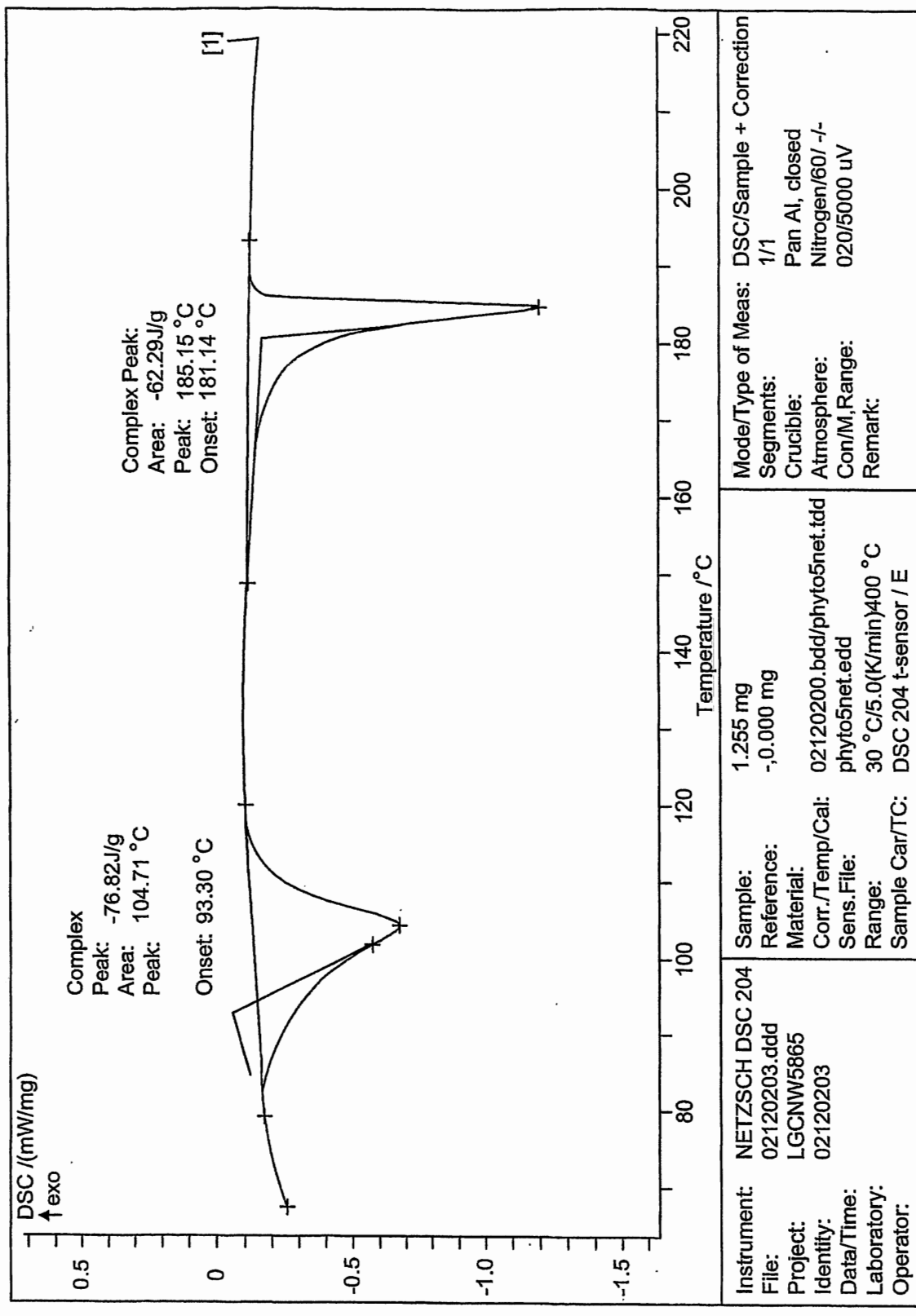
DSC /(mW/mg)
↑exo
0.5
0
-0.5
-1.0
-1.5
Complex
Peak: -76.82J/g
Area: 104.71 °C
Peak:
Onset: 93.30 °C
Complex Peak:
Area: -62.29J/g
Peak: 185.15 °C
Onset: 181.14 °C
[1]
80
100
120
140
160
180
200
220
Temperature /°C
Instrument: NETZSCH DSC 204
File: 02120203.ddd
Project: LGCNW5865
Identity: 02120203
Data/Time:
Laboratory:
Operator:
Sample: 1.255 mg
Reference: -,0.000 mg
Material:
Corr./Temp/Cal: 02120200.bdd/phyto5net.tdd
Sens.File: phyto5net.edd
Range: 30 °C/5.0(K/min)400 °C
Sample Car/TC: DSC 204 t-sensor / E
Mode/Type of Meas: DSC/Sample + Correction
Segments: 1/1
Crucible: Pan Al, closed
Atmosphere: Nitrogen/60/ -/-
Con/M,Range: 020/5000 uV
Remark:

FIG. 6

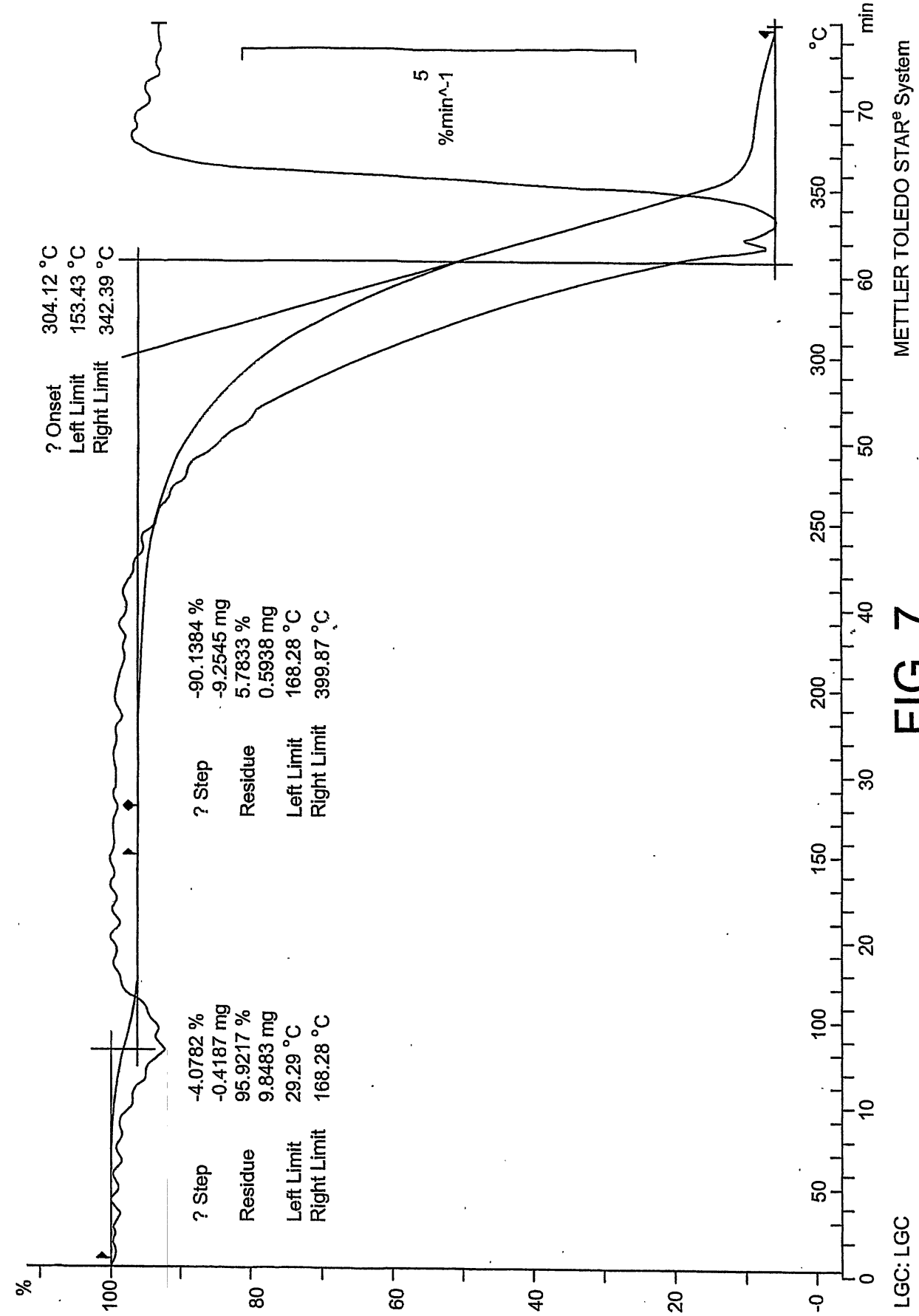
? Onset 304.12 °C
Left Limit 153.43 °C
Right Limit 342.39 °C
? Step -4.0782 %
-0.4187 mg
Residue 95.9217 %
9.8483 mg
Left Limit 29.29 °C
Right Limit 168.28 °C
? Step -90.1384 %
-9.2545 mg
Residue 5.7833 %
0.5938 mg
Left Limit 168.28 °C
Right Limit 399.87 °C
5
%min^-1
%
100
80
60
40
20
-0
0
50
100
150
200
250
300
350
°C
10
20
30
40
50
60
70
min
LGC: LGC
METTLER TOLEDO STAR^e System

FIG. 7

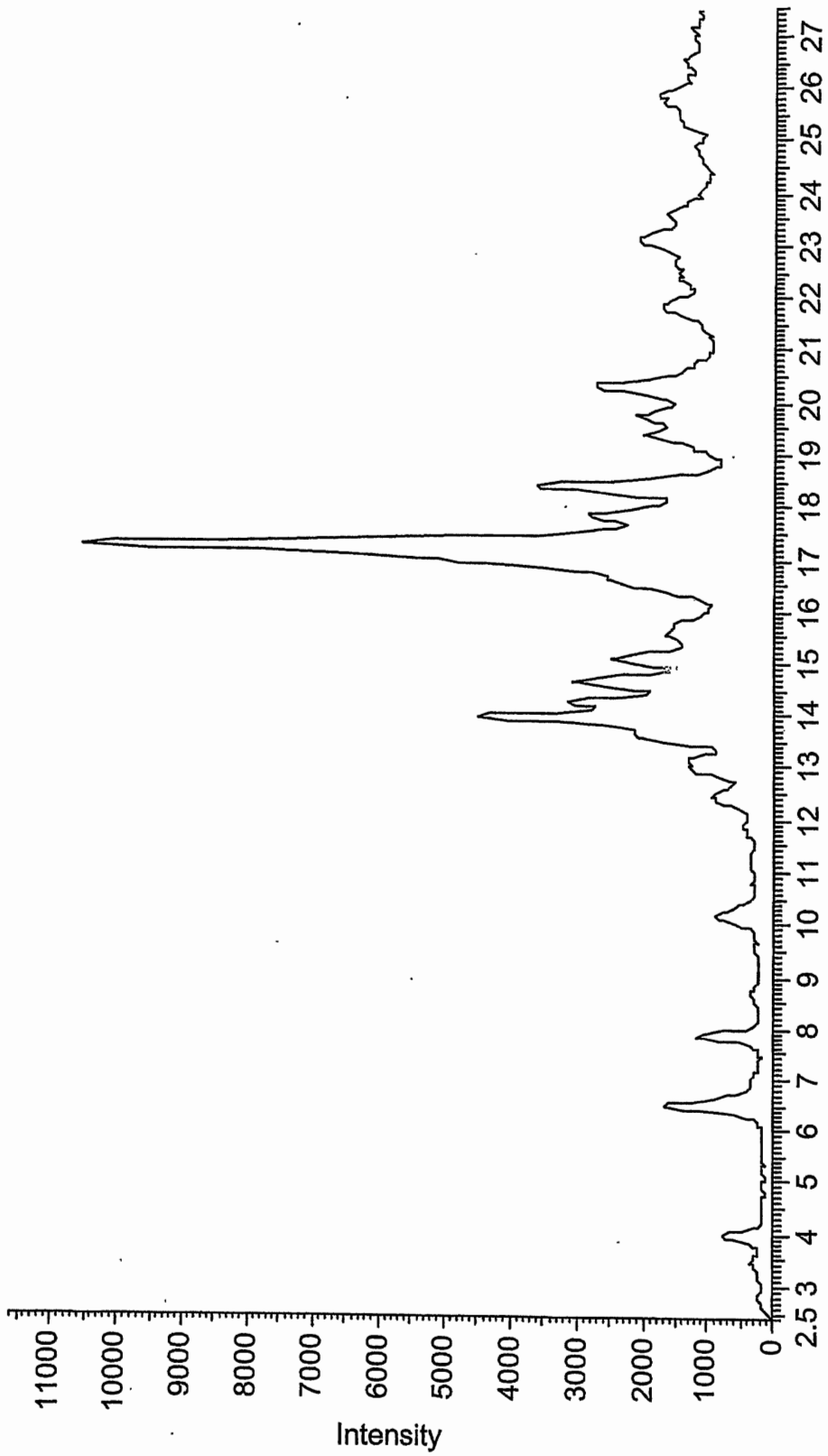
Intensity
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2.5 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Degrees (2 theta)

FIG. 8

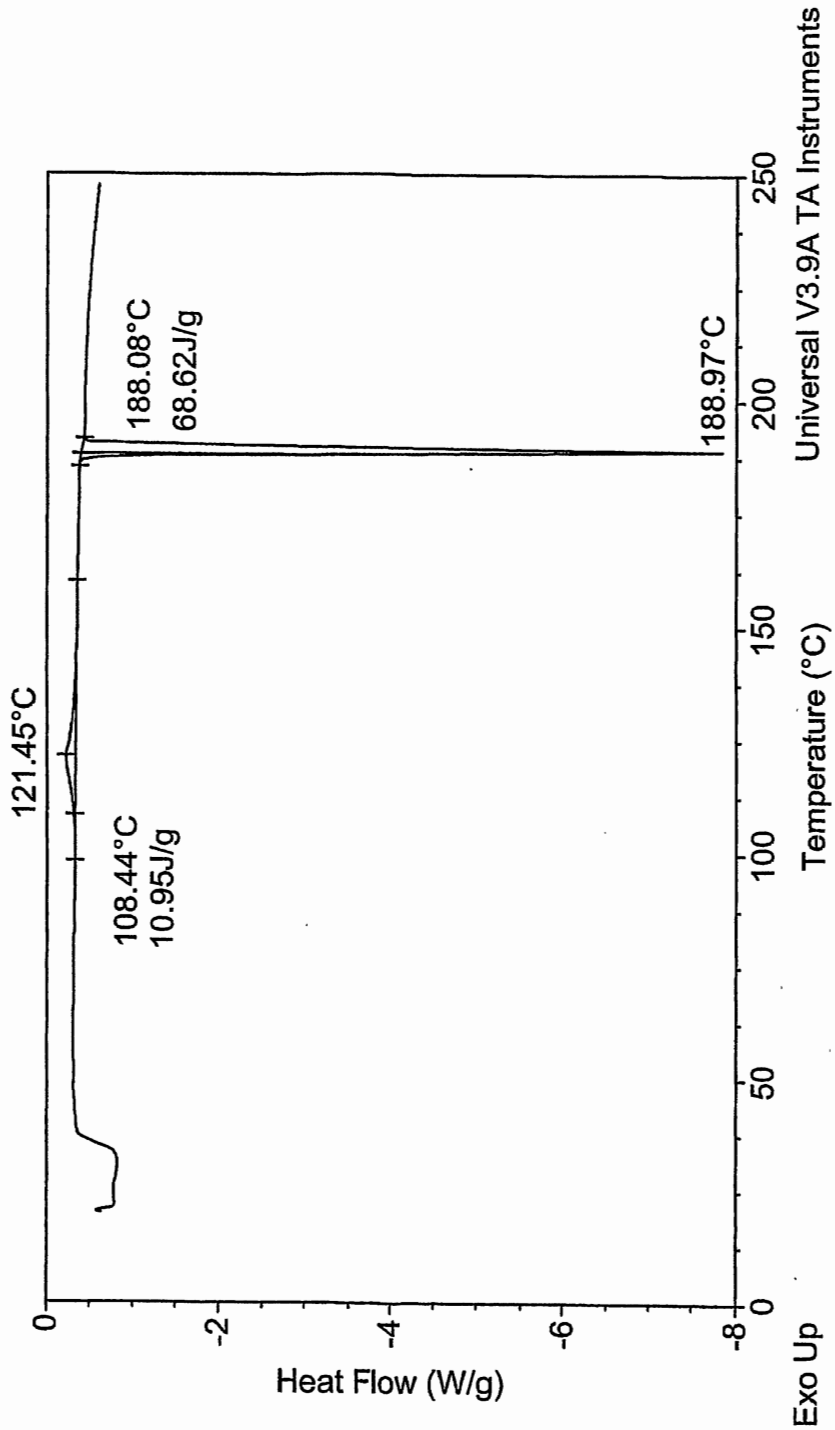
121.45°C
108.44°C
10.95J/g
188.08°C
68.62J/g
188.97°C
Heat Flow (W/g)
Exo Up
Temperature (°C)
Universal V3.9A TA Instruments
0
-2
-4
-6
-8
0
50
100
150
200
250

FIG. 9

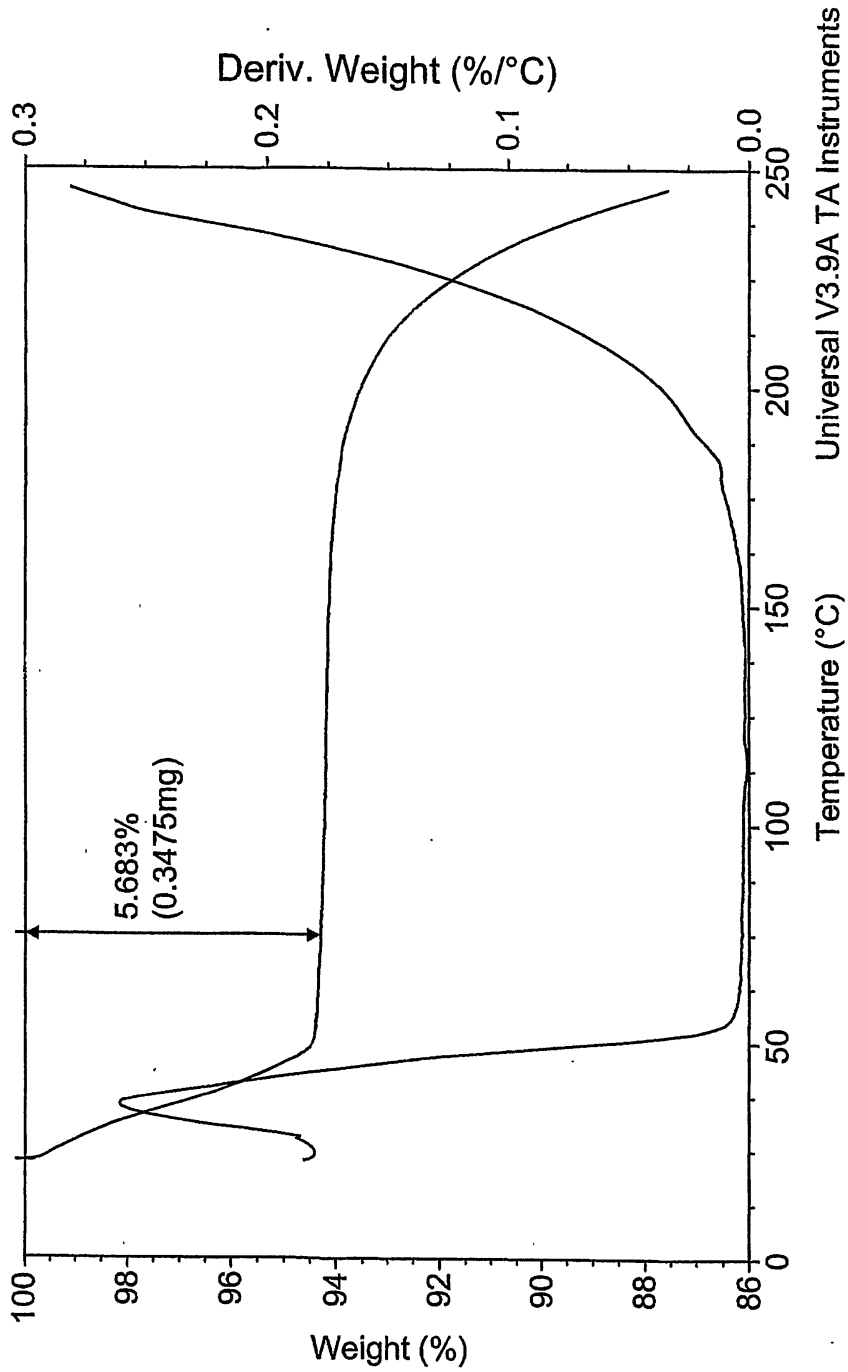
Deriv. Weight (%/°C)
0.3
0.2
0.1
0.0
Universal V3.9A TA Instruments
Temperature (°C)
0
50
100
150
200
250
5.683%
(0.3475mg)
100
98
96
94
92
90
88
86
Weight (%)

FIG. 10

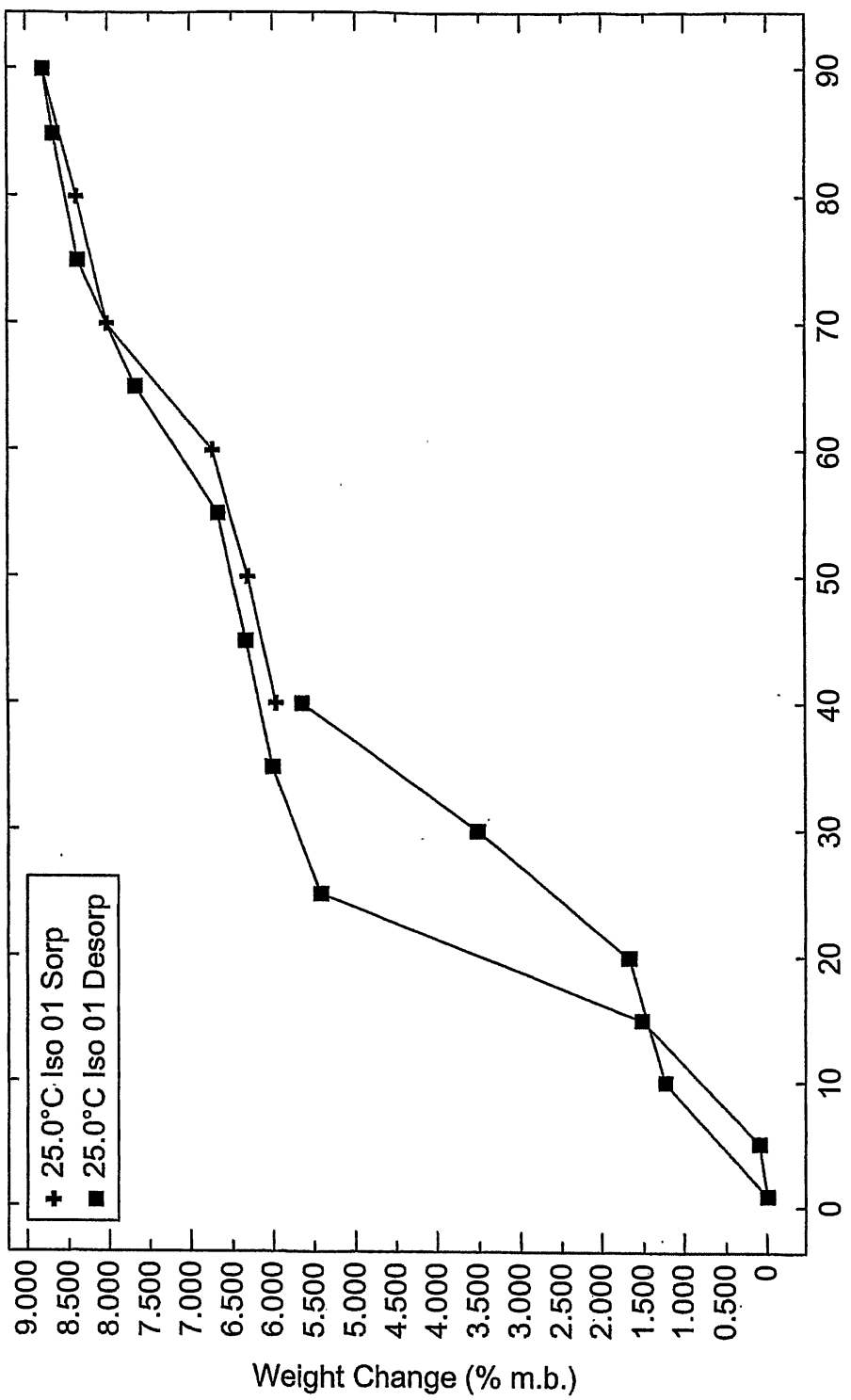
25.0°C Iso 01 Sorp
25.0°C Iso 01 Desorp
Weight Change (% m.b.)
%-RH (%)
0.000
0.500
1.000
1.500
2.000
2.500
3.000
3.500
4.000
4.500
5.000
5.500
6.000
6.500
7.000
7.500
8.000
8.500
9.000
0
10
20
30
40
50
60
70
80
90

FIG. 11

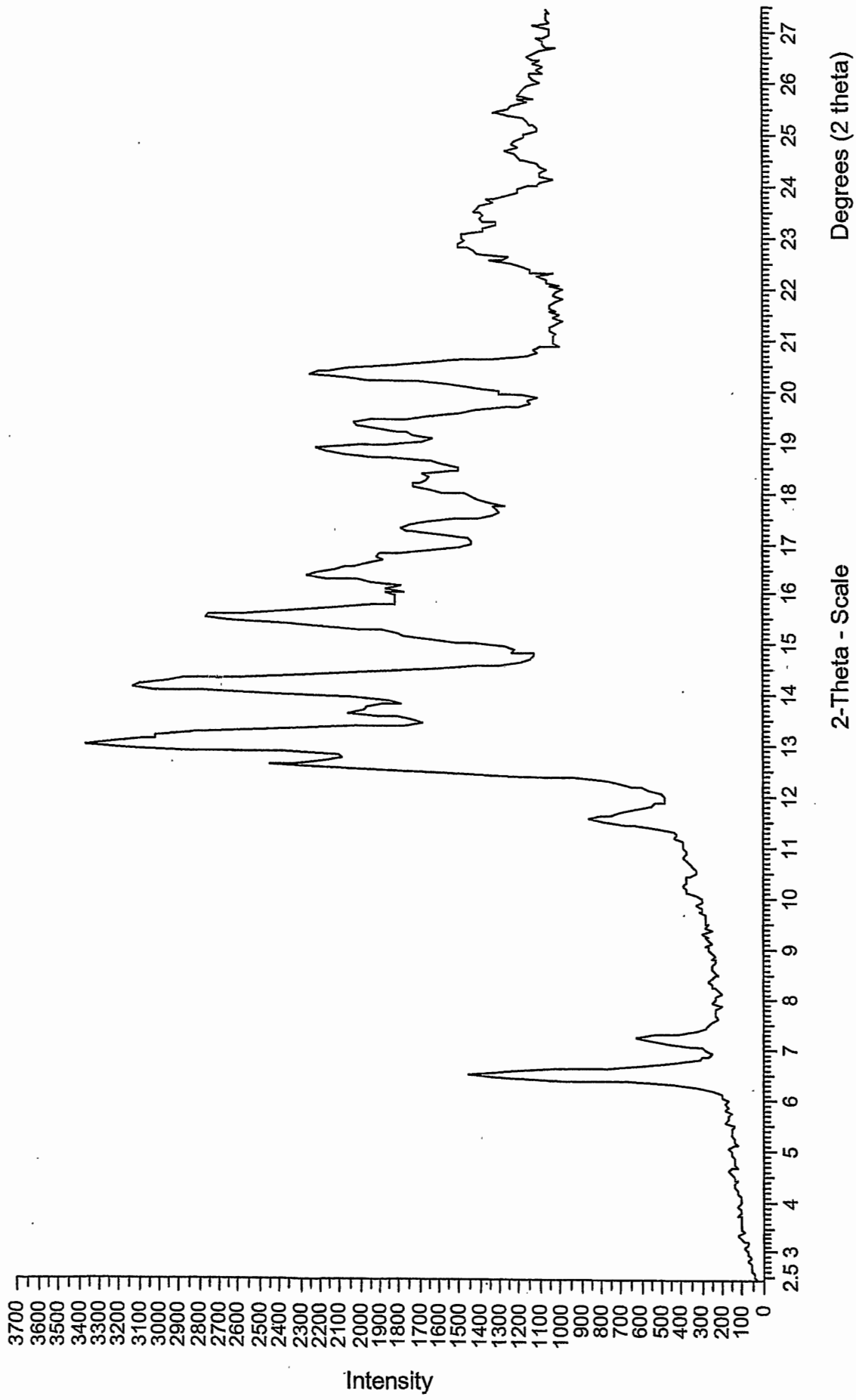
Intensity
3700
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
2.5 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
2-Theta - Scale
Degrees (2 theta)

FIG. 12

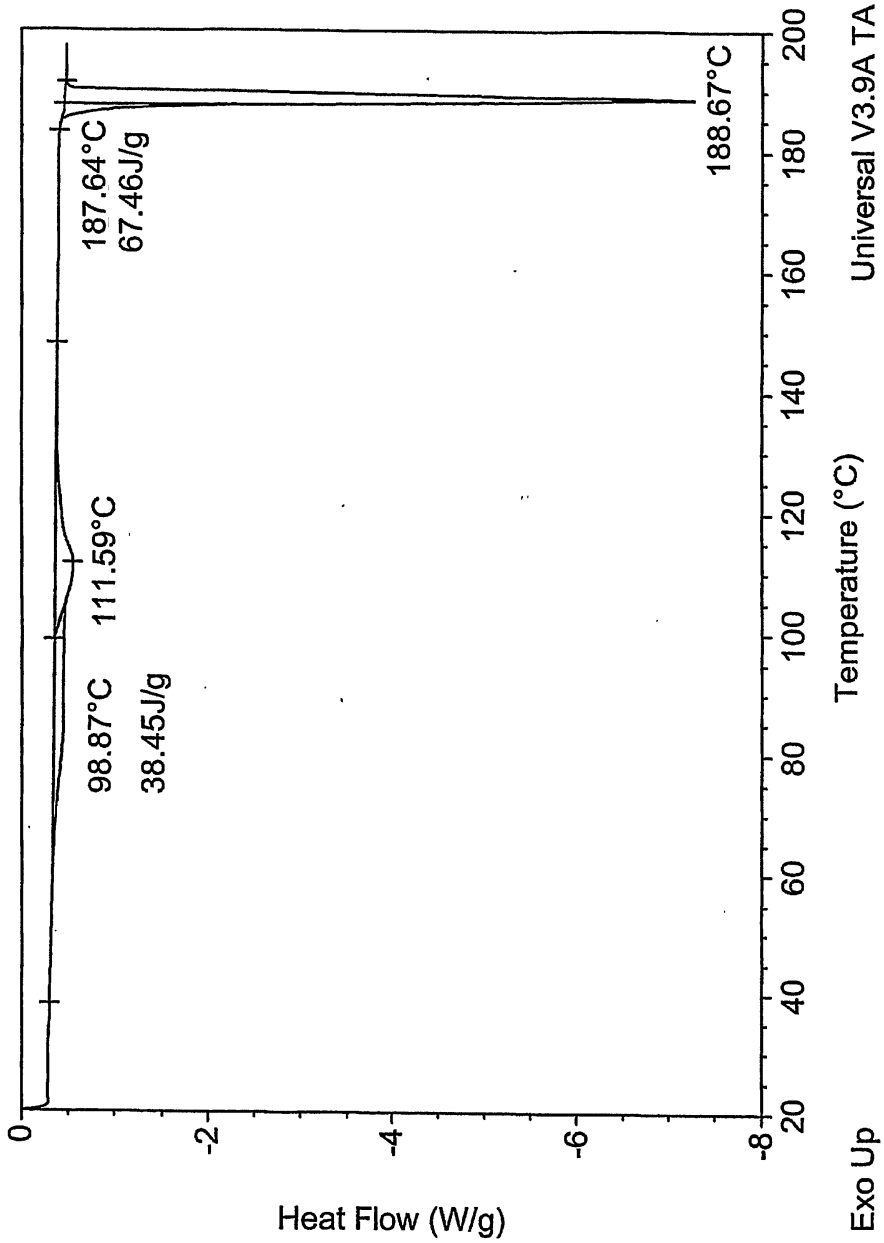
98.87°C
38.45J/g
111.59°C
187.64°C
67.46J/g
188.67°C
Heat Flow (W/g)
Exo Up
Temperature (°C)
Universal V3.9A TA Instruments

FIG. 13

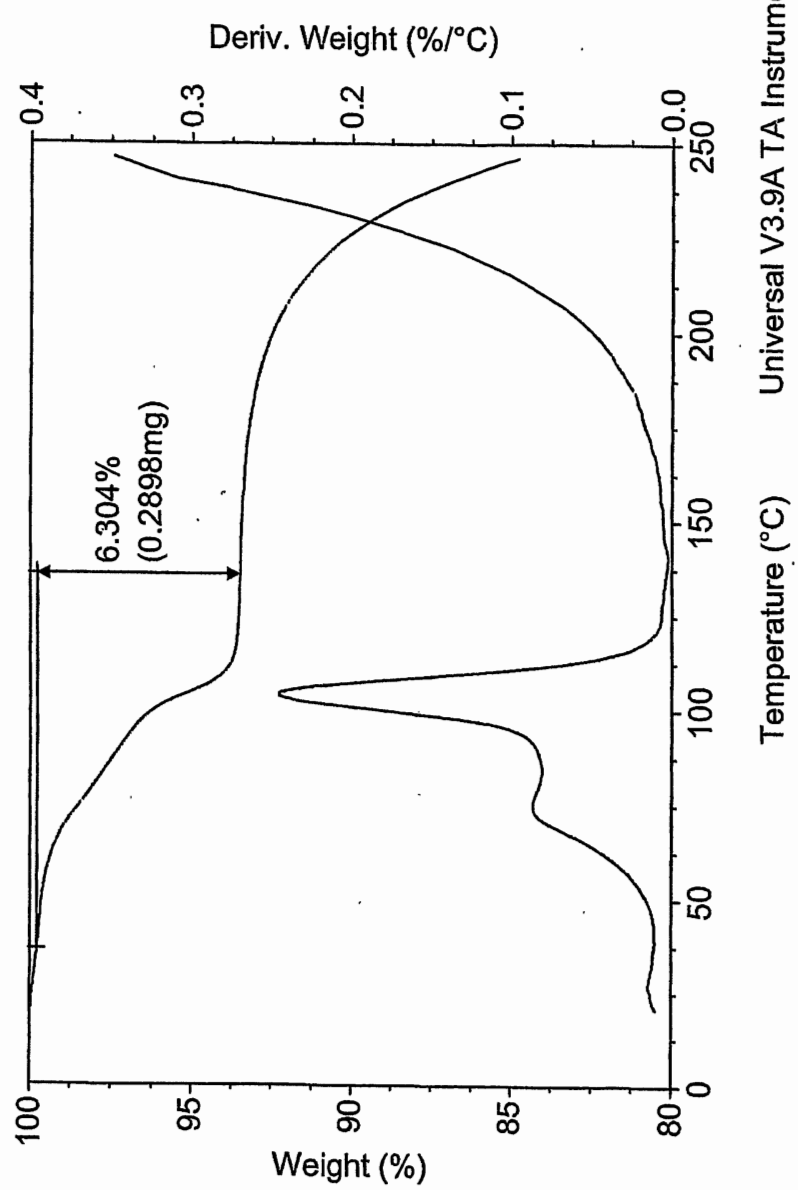
Deriv. Weight (%/°C)
0.4
0.3
0.2
0.1
0.0
250
200
150
100
50
0
6.304%
(0.2898mg)
100
95
90
85
80
Weight (%)
Temperature (°C)
Universal V3.9A TA Instruments

FIG. 14

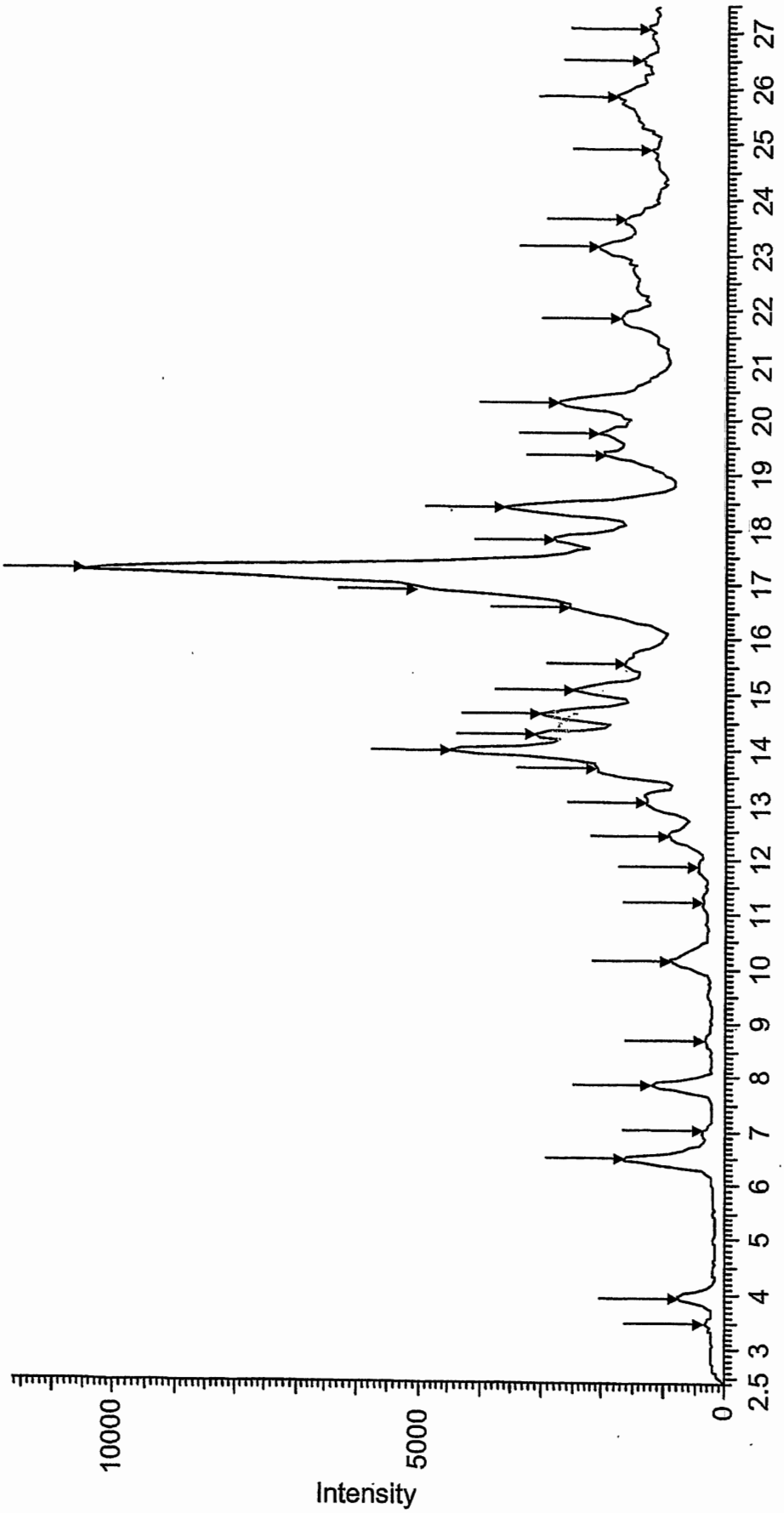
10000
5000
0
Intensity
2.5 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
2θ (degrees)

FIG. 15

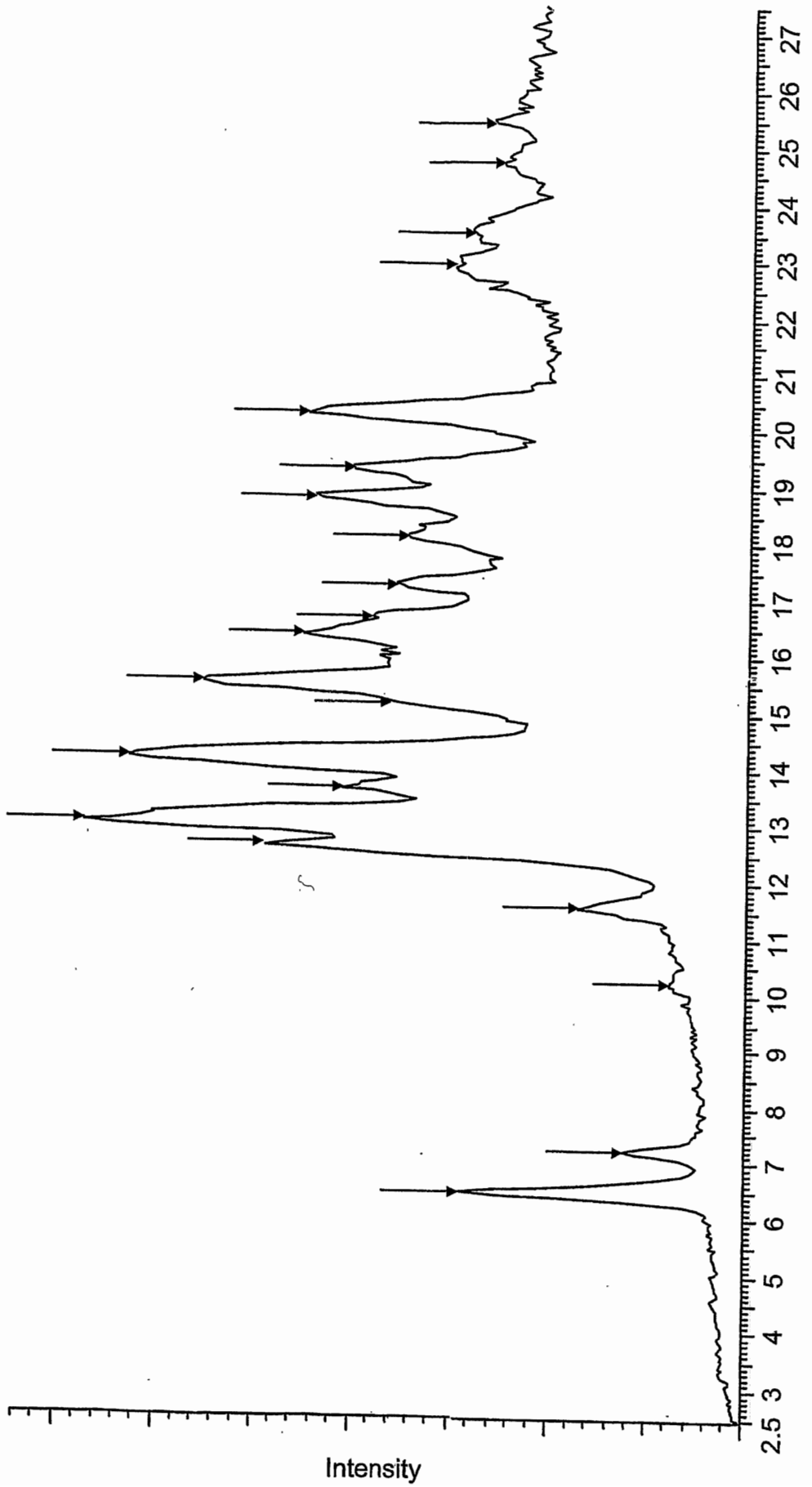
Intensity
2.5 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
2θ (degrees)

FIG. 16