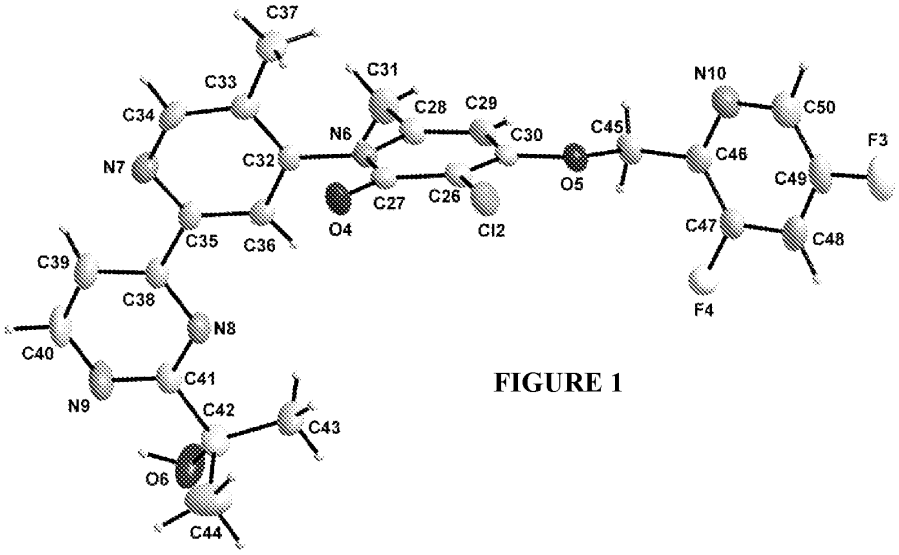

C37
C33
C34
N7
C32
C31
C28
C29
N6
C30
C45
N10
C50
F3
C46
C49
O5
C27
C26
O4
Cl2
C47
C48
F4
C35
C36
C39
C38
N8
C40
C41
N9
C42
C43
O6
C44

FIGURE 1

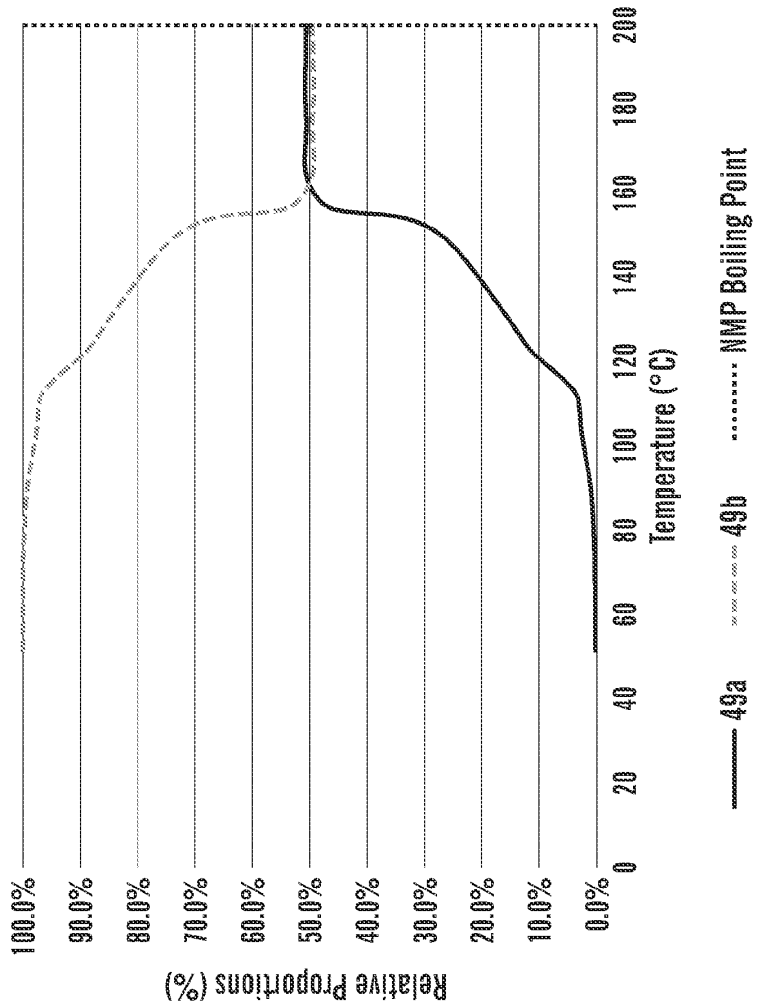

Relative Proportions (%)
100.0%
90.0%
80.0%
70.0%
60.0%
50.0%
40.0%
30.0%
20.0%
10.0%
0.0%
0
20
40
60
80
100
120
140
160
180
200
Temperature (°C)
49a
49b
NMP Boiling Point

FIGURE 2

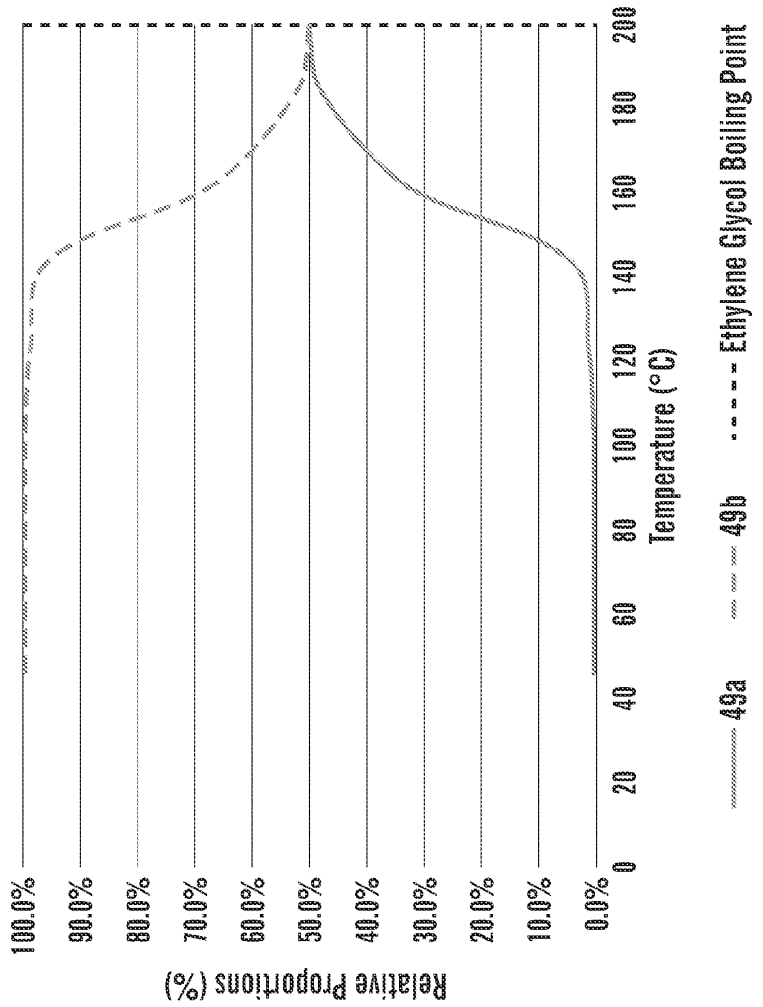

Relative Proportions (%)
100.0%
90.0%
80.0%
70.0%
60.0%
50.0%
40.0%
30.0%
20.0%
10.0%
0.0%
0
20
40
60
80
100
120
140
160
180
200
Temperature (°C)
49a
49b
Ethylene Glycol Boiling Point

FIGURE 3

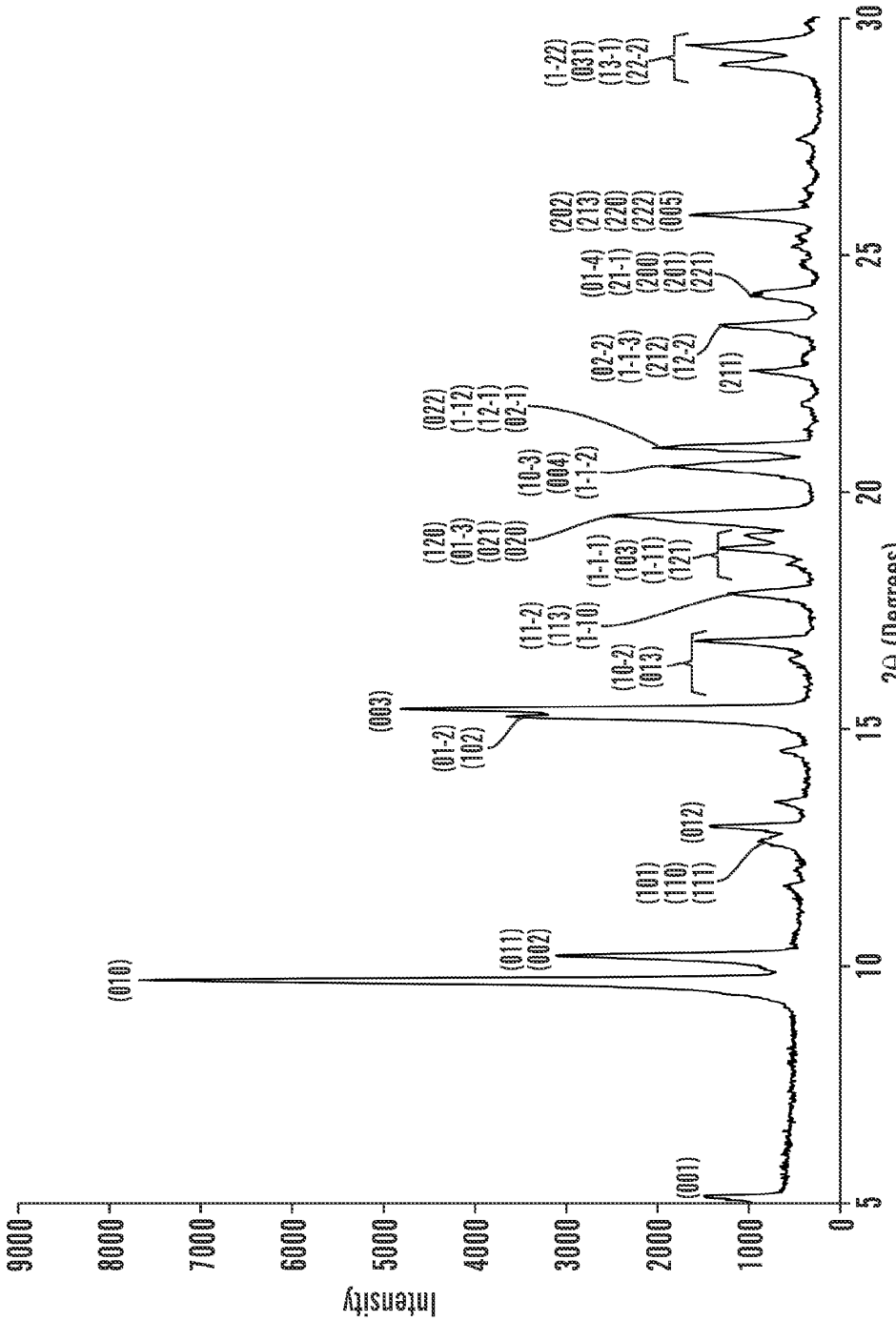

Intensity
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
5
10
15
20
25
30
2θ (Degrees)
(001)
(010)
(011)
(002)
(101)
(110)
(111)
(012)
(01-2)
(102)
(003)
(10-2)
(013)
(11-2)
(113)
(1-10)
(1-1-1)
(103)
(1-11)
(121)
(120)
(01-3)
(021)
(020)
(10-3)
(004)
(1-1-2)
(022)
(1-12)
(12-1)
(02-1)
(02-2)
(1-1-3)
(212)
(12-2)
(211)
(01-4)
(21-1)
(200)
(201)
(221)
(202)
(213)
(220)
(222)
(005)
(1-22)
(031)
(13-1)
(22-2)

FIGURE 4

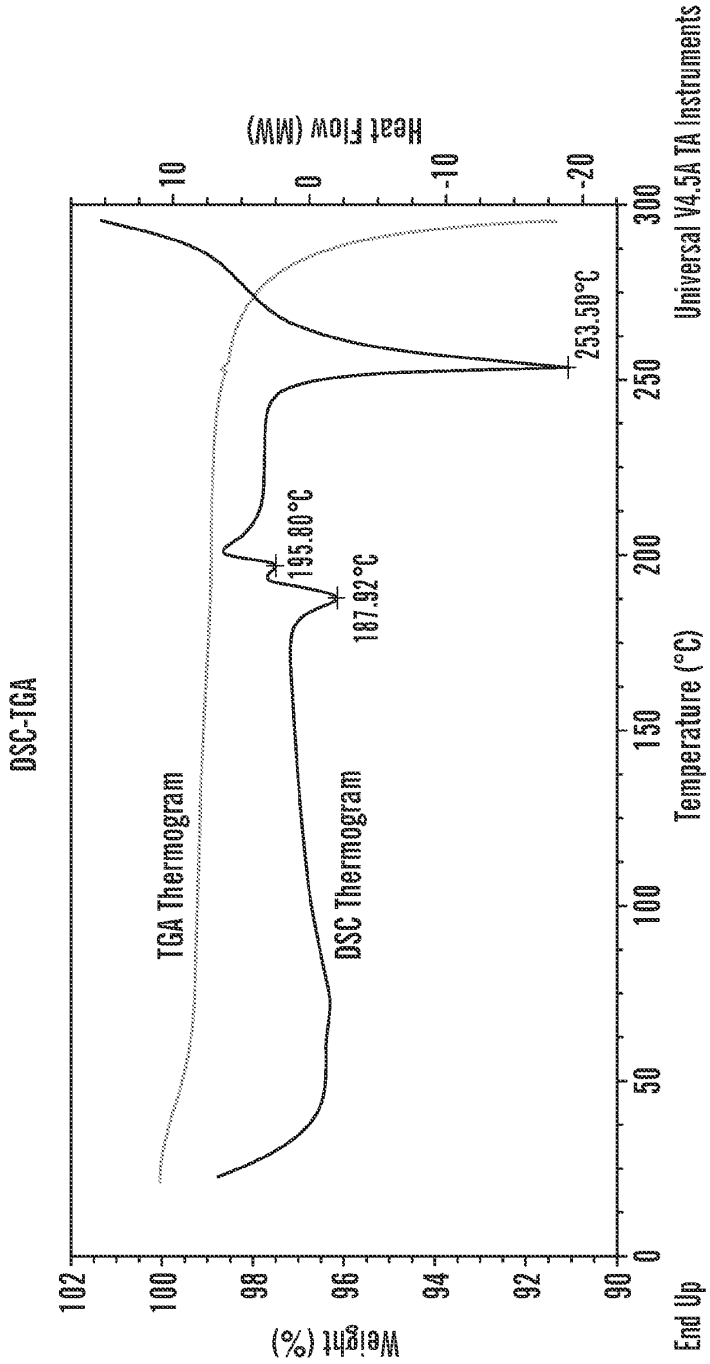

DSC-TGA
TGA Thermogram
DSC Thermogram
195.80°C
187.92°C
253.50°C
Weight (%)
Heat Flow (mW)
Temperature (°C)
Universal V4.5A TA Instruments
End Up
102
100
98
96
94
92
90
10
0
-10
-20
0
50
100
150
200
250
300

FIGURE 5

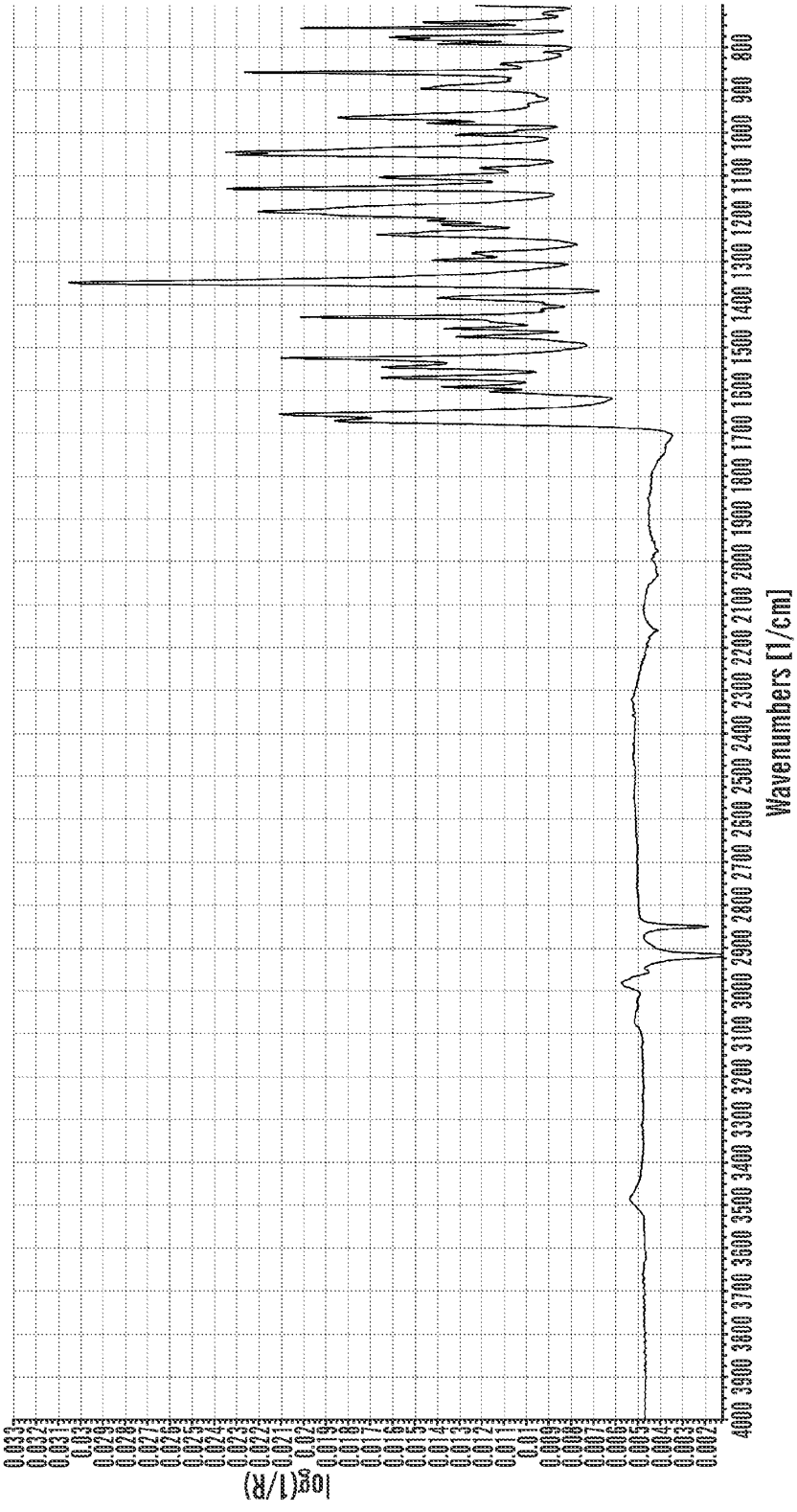


FIGURE 6

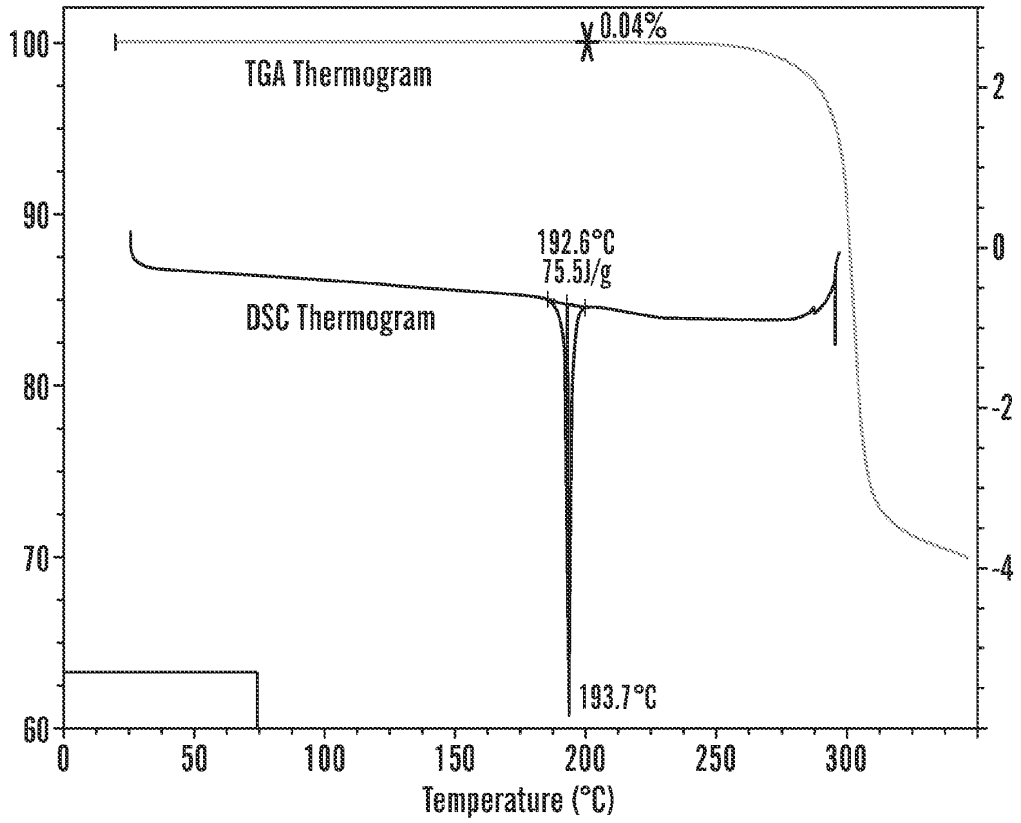
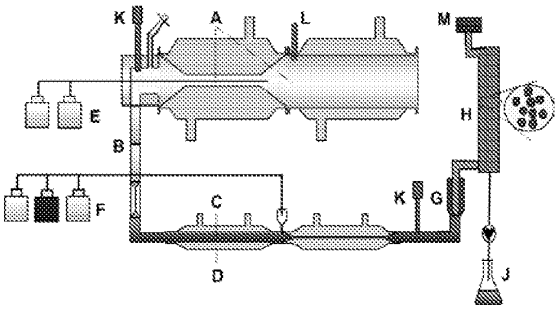

100
90
80
70
60
0.04%
TGA Thermogram
192.6°C
75.5J/g
DSC Thermogram
193.7°C
2
0
-2
-4
0
50
100
150
200
250
300
Temperature (°C)

FIGURE 7



Tiny-TIM system:
A: gastric compartment
B: pyloric valve
C: intestinal content (chime)
D: small-intestinal compartment
E: salivary & gastric secretion
F: intestinal secretion
G: pre-filter
H: semi-permeable membrane unit
J: filtration (bioaccessible fraction)
K: pH electrodes
L: pressure sensor
M: level sensor

FIGURE 8

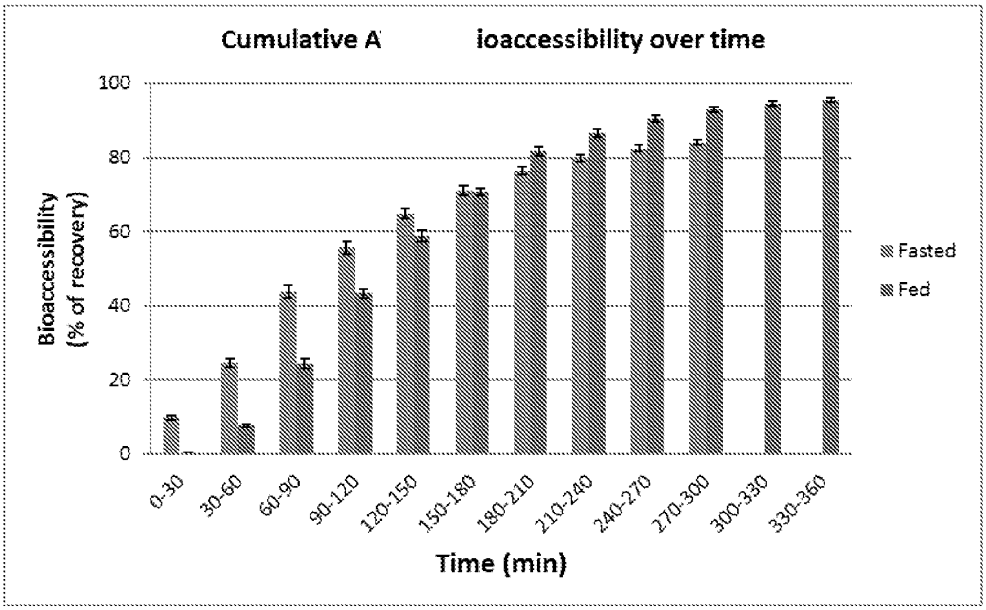

Cumulative A ioaccessibility over time
Bioaccessibility (% of recovery)
100
80
60
40
20
0
0-30
30-60
60-90
90-120
120-150
150-180
180-210
210-240
240-270
270-300
300-330
330-360
Time (min)
Fasted
Fed

FIGURE 9

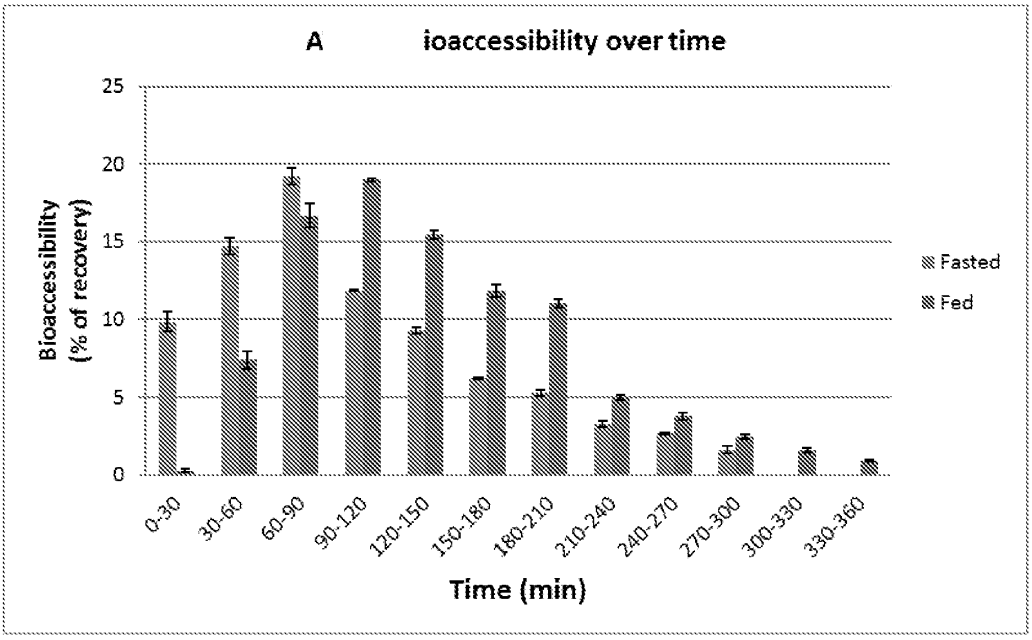

A ioaccessibility over time
Bioaccessibility (% of recovery)
25
20
15
10
5
0
0-30
30-60
60-90
90-120
120-150
150-180
180-210
210-240
240-270
270-300
300-330
330-360
Time (min)
Fasted
Fed

FIGURE 10

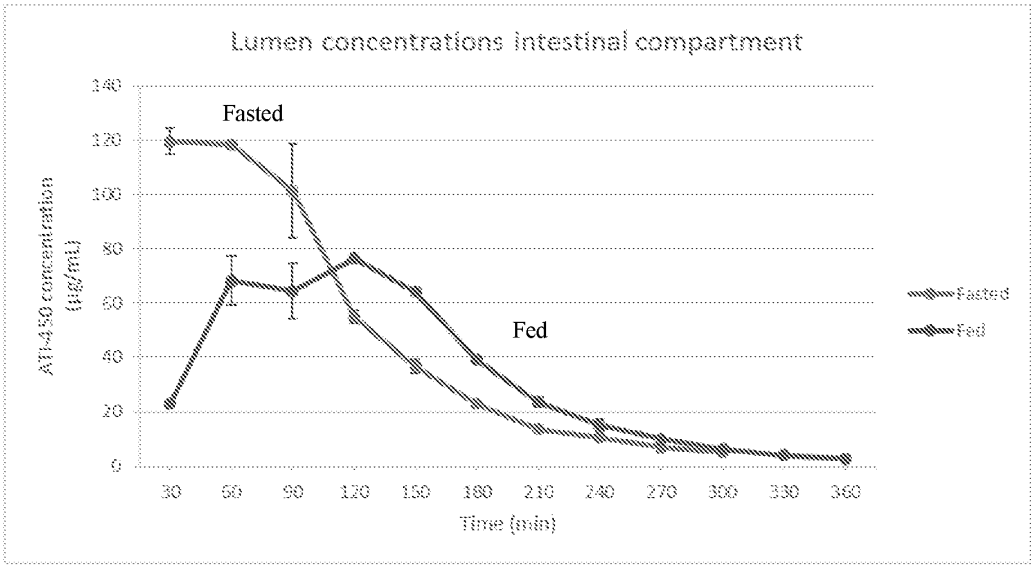

Lumen concentrations intestinal compartment
Fasted
Fed
AT1-450 concentration (µg/mL)
Time (min)
0
20
40
60
80
100
120
140
30
60
90
120
150
180
210
240
270
300
330
360
Fasted
Fed

FIGURE 11