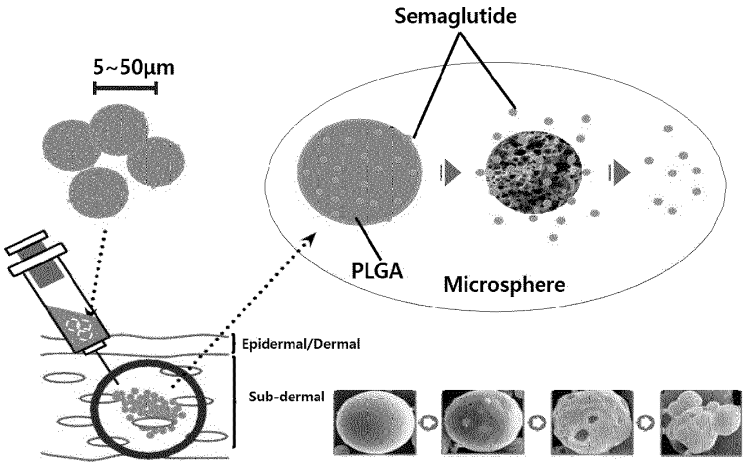
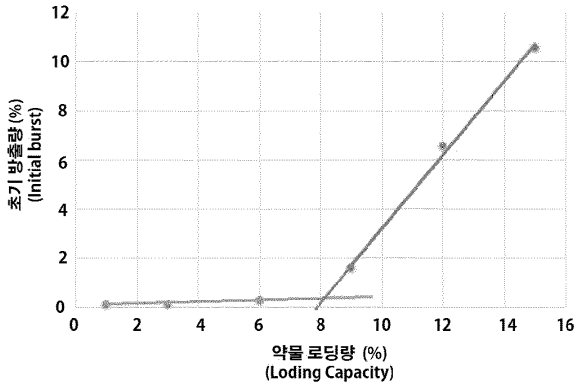
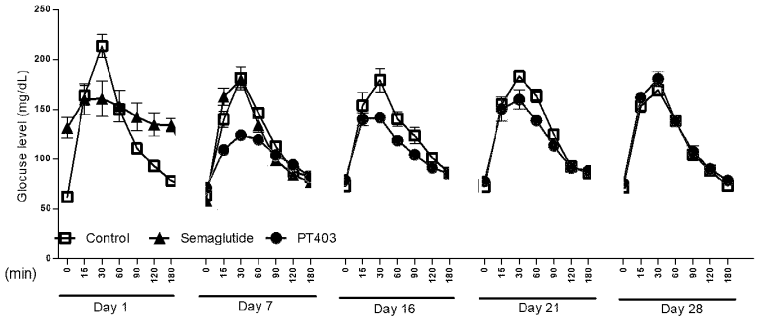
[도1]


Semaglutide
5~50μm
PLGA
Microsphere
Epidermal/Dermal
Sub-dermal

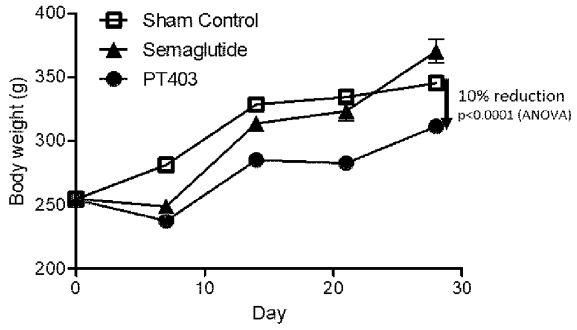
[도2]


초기 방출량 (%)
(Initial burst)
12
10
8
6
4
2
0
0
2
4
6
8
10
12
14
16
약물 로딩량 (%)
(Loding Capacity)

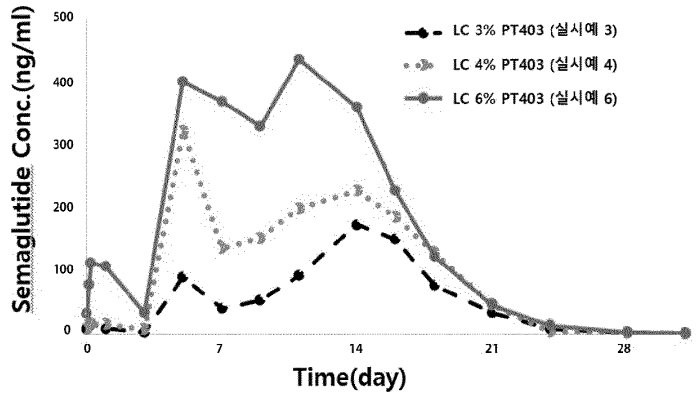
[도3]


Glocuse level (mg/dL)
Control
Semaglutide
PT403
(min)
Day 1
Day 7
Day 16
Day 21
Day 28

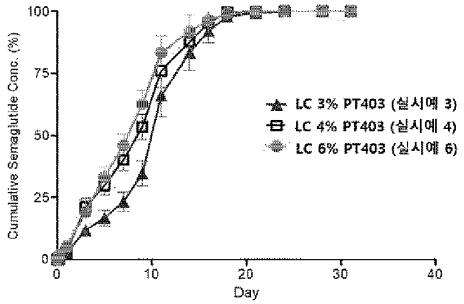
[도4]


Sham Control
Semaglutide
PT403
Body weight (g)
400
350
300
250
200
0
10
20
30
Day
10% reduction
p<0.0001 (ANOVA)

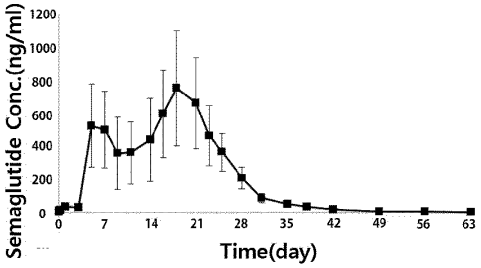
[도5]


Semaglutide Conc.(ng/ml)
500
400
300
200
100
0
0
7
14
21
28
Time(day)
LC 3% PT403 (실시예 3)
LC 4% PT403 (실시예 4)
LC 6% PT403 (실시예 6)

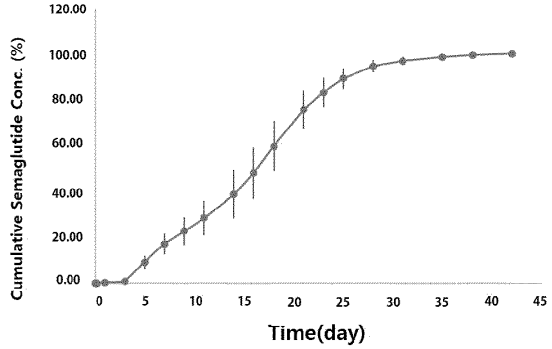
[도6]


Cumulative Semaglutide Conc. (%)
100
75
50
25
0
0
10
20
30
40
Day
LC 3% PT403 (실시예 3)
LC 4% PT403 (실시예 4)
LC 6% PT403 (실시예 6)

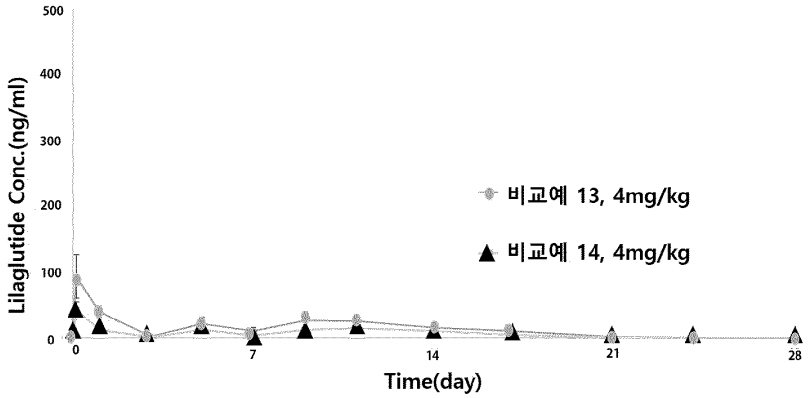
[도7]


Semaglutide Conc.(ng/ml)
1200
1000
800
600
400
200
0
0
7
14
21
28
35
42
49
56
63
Time(day)

[도8]


Cumulative Semaglutide Conc. (%)
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0
5
10
15
20
25
30
35
40
45
Time(day)

[도9]


500
400
300
200
100
0
Lilaglutide Conc.(ng/ml)
0
7
14
21
28
Time(day)
비교예 13, 4mg/kg
비교예 14, 4mg/kg