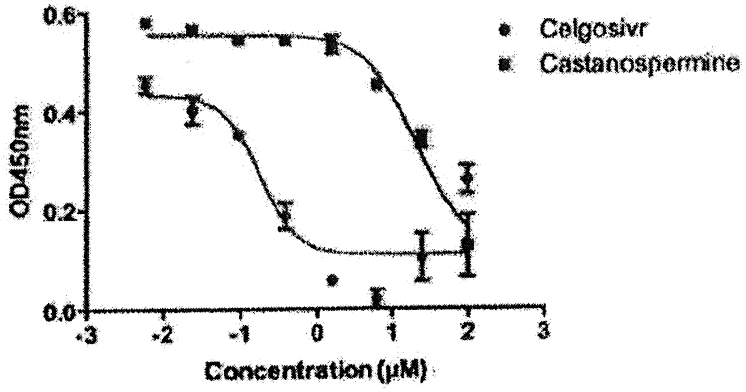

0.6
0.4
0.2
0.0
OD450nm
-3
-2
-1
0
1
2
3
Concentration (μM)
Celgosivr
Castanospermine

FIG. 1

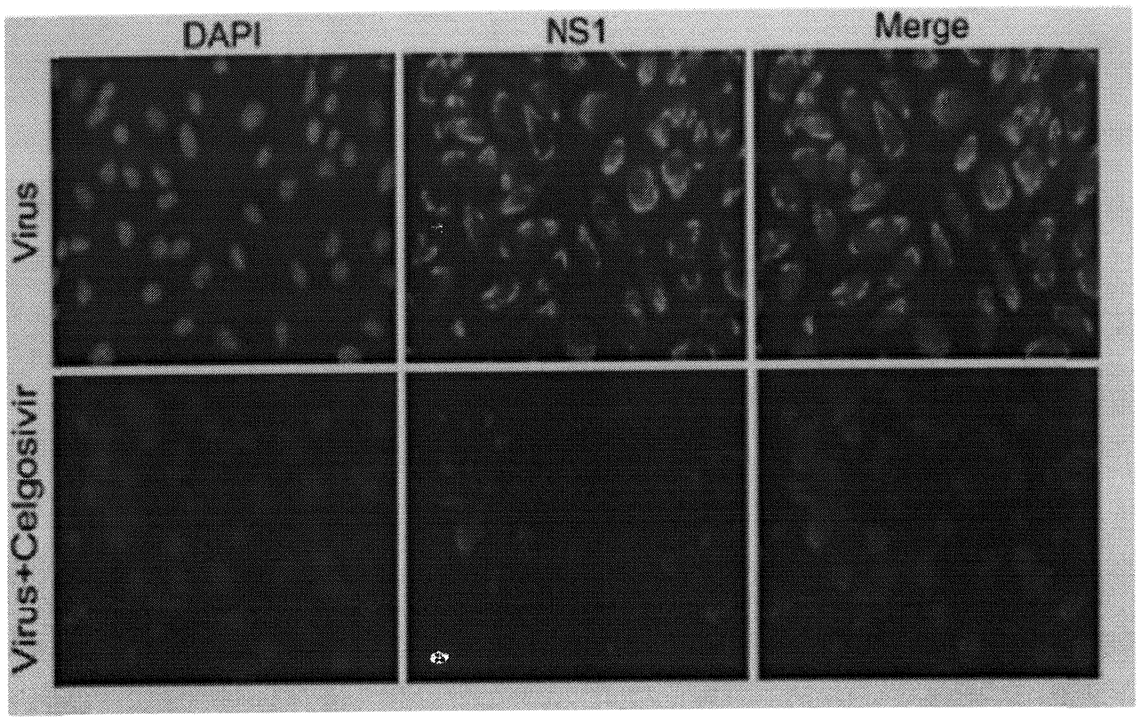


FIG. 2

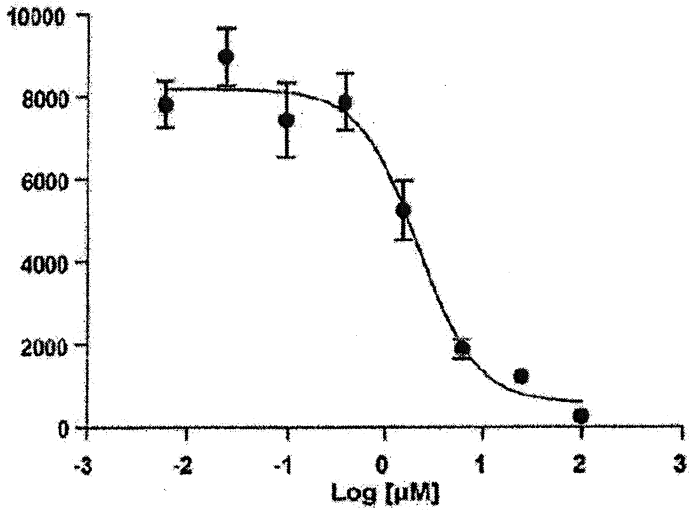


FIG. 3

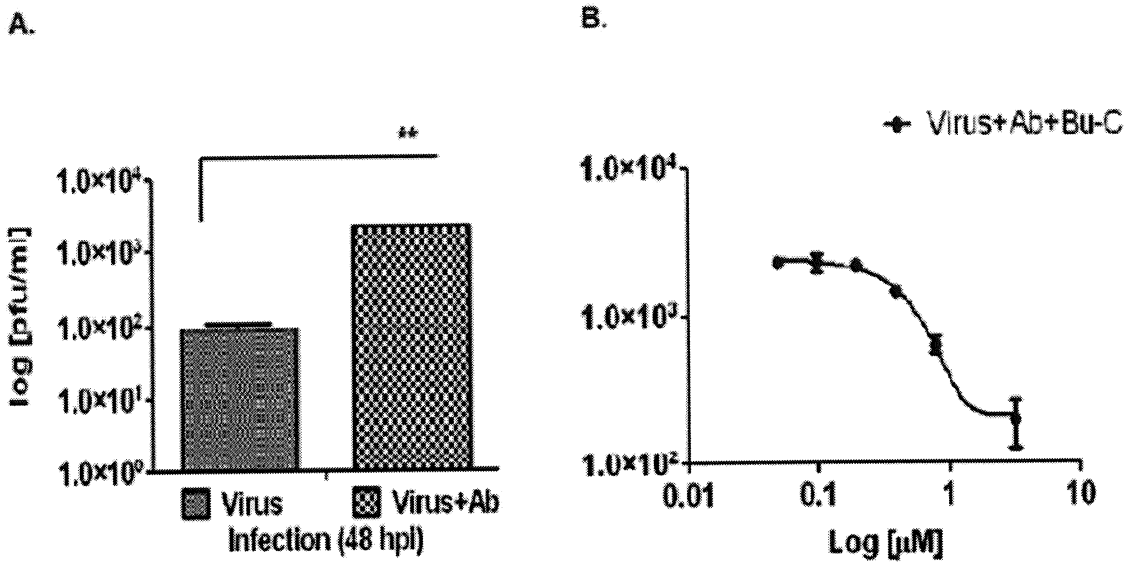

A.
B.
**
1.0×10⁴
1.0×10³
1.0×10²
1.0×10¹
1.0×10⁰
log [pfu/ml]
Virus
Virus+Ab
Infection (48 hpi)
Virus+Ab+Bu-C
1.0×10⁴
1.0×10³
1.0×10²
0.01
0.1
1
10
Log [μM]

FIG. 4

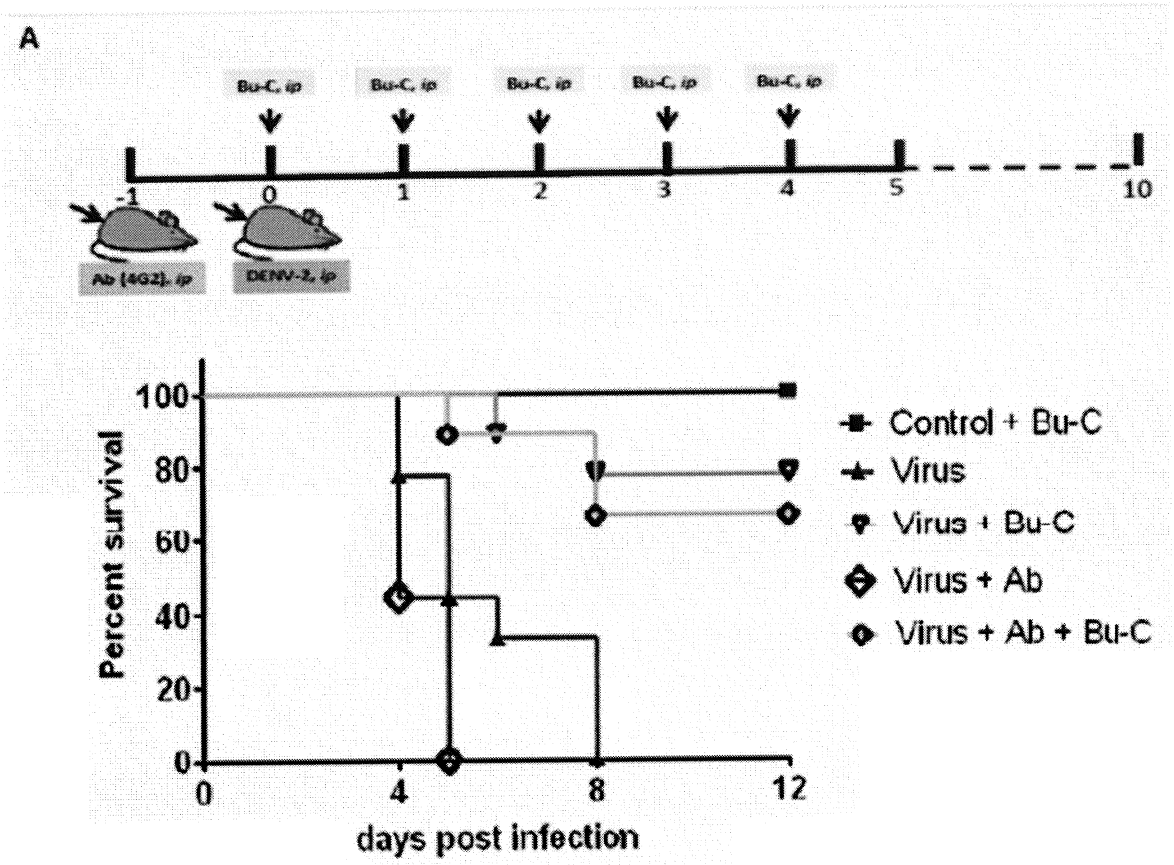

A
Bu-C, ip
Bu-C, ip
Bu-C, ip
Bu-C, ip
Bu-C, ip
-1
0
1
2
3
4
5
10
Ab (4G2), ip
DENV-2, ip
100
80
60
40
20
0
Percent survival
0
4
8
12
days post infection
Control + Bu-C
Virus
Virus + Bu-C
Virus + Ab
Virus + Ab + Bu-C

FIG. 5A and 5B

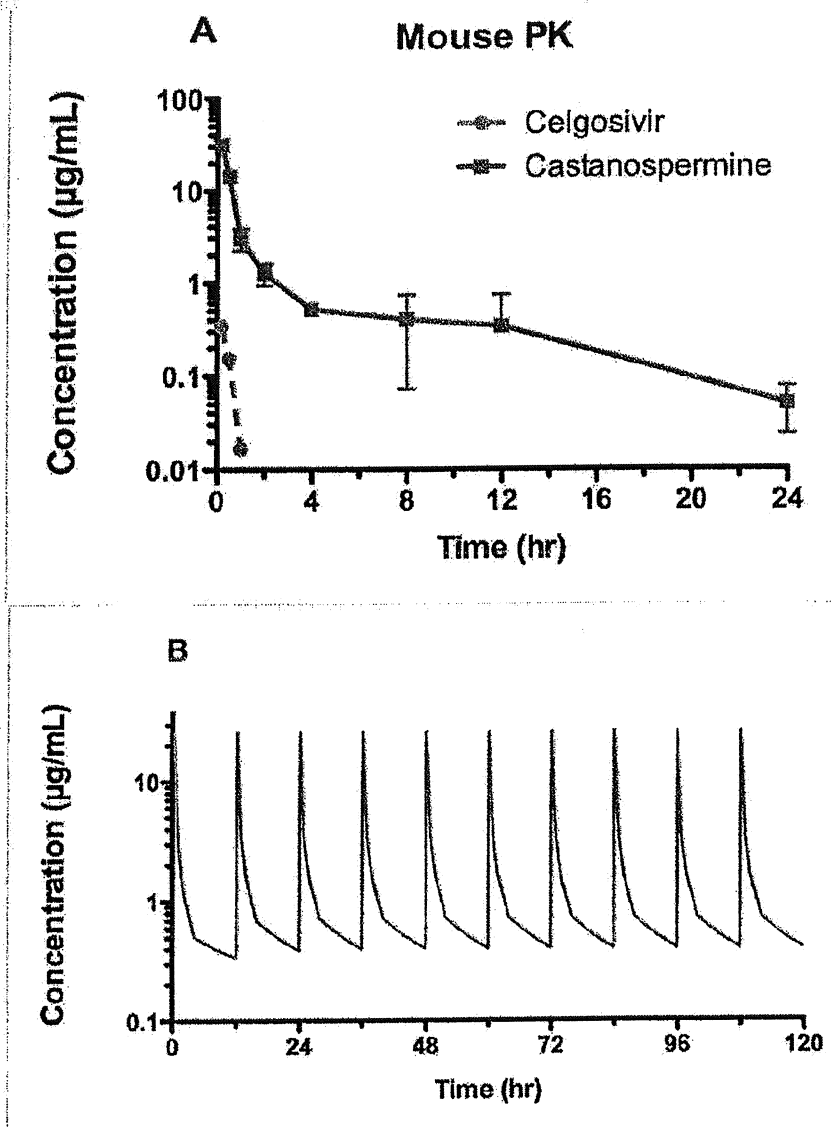

A
Mouse PK
Celgosivir
Castanospermine
Concentration (µg/mL)
100
10
1
0.1
0.01
0
4
8
12
16
20
24
Time (hr)
B
Concentration (µg/mL)
10
1
0.1
0
24
48
72
96
120
Time (hr)

FIG. 6A and 6B

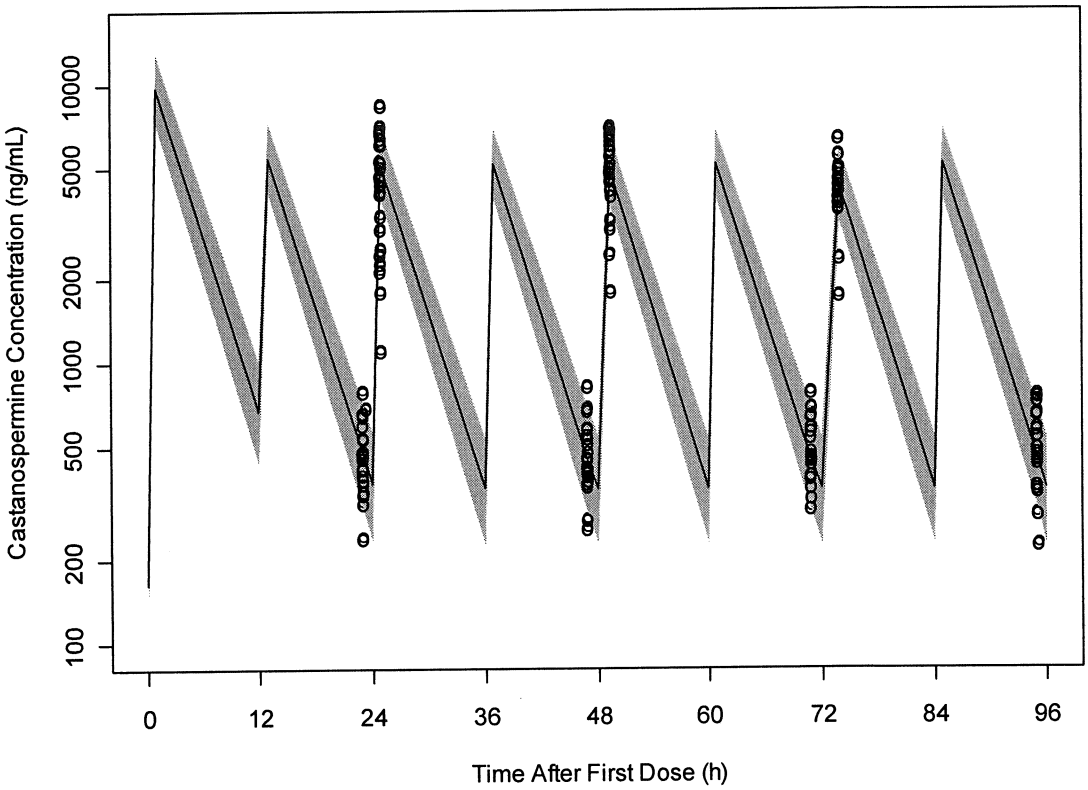

Castanospermine Concentration (ng/mL)
100
200
500
1000
2000
5000
10000
0
12
24
36
48
60
72
84
96
Time After First Dose (h)

FIG. 7

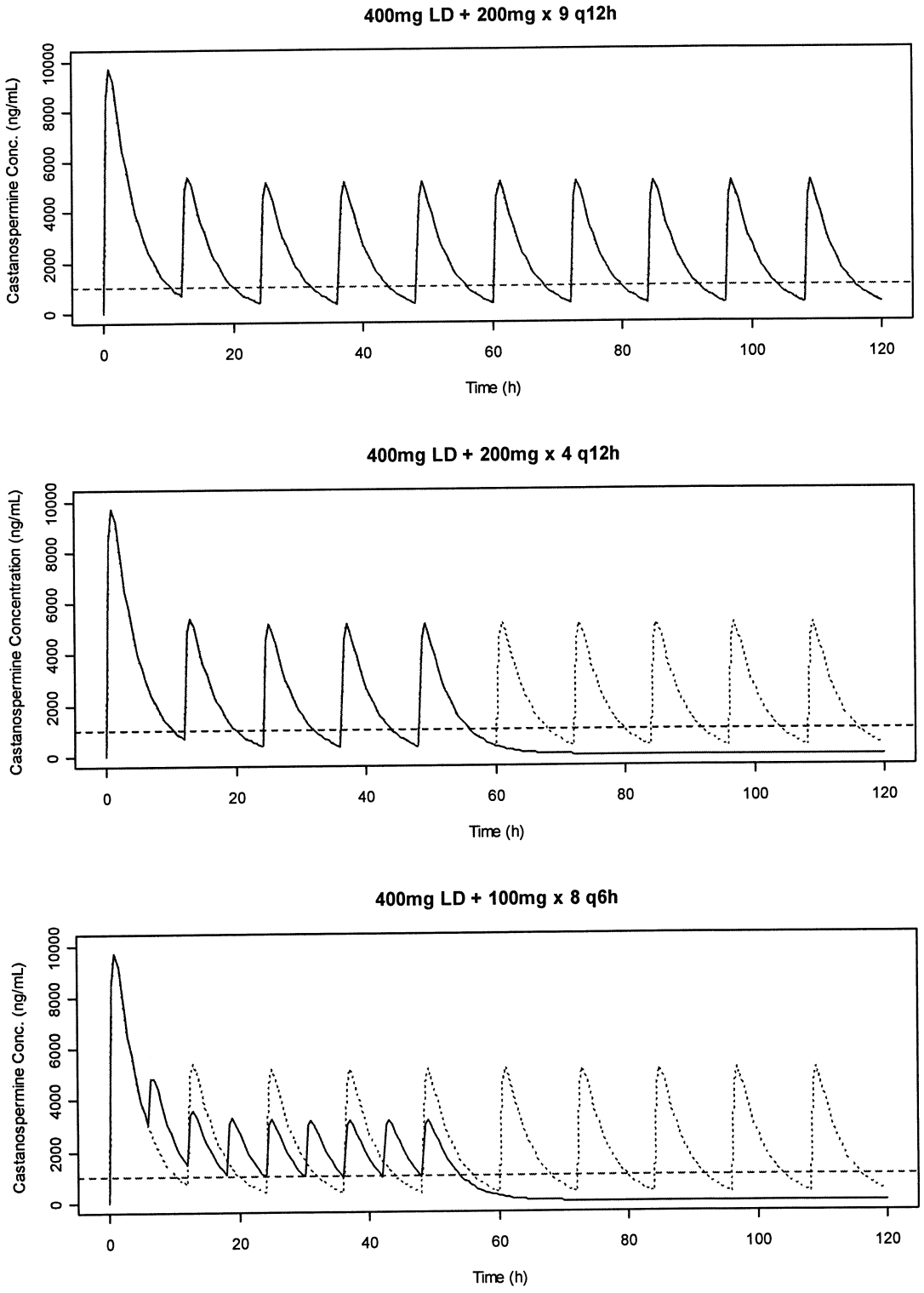


FIG. 8A, 8B and 8C

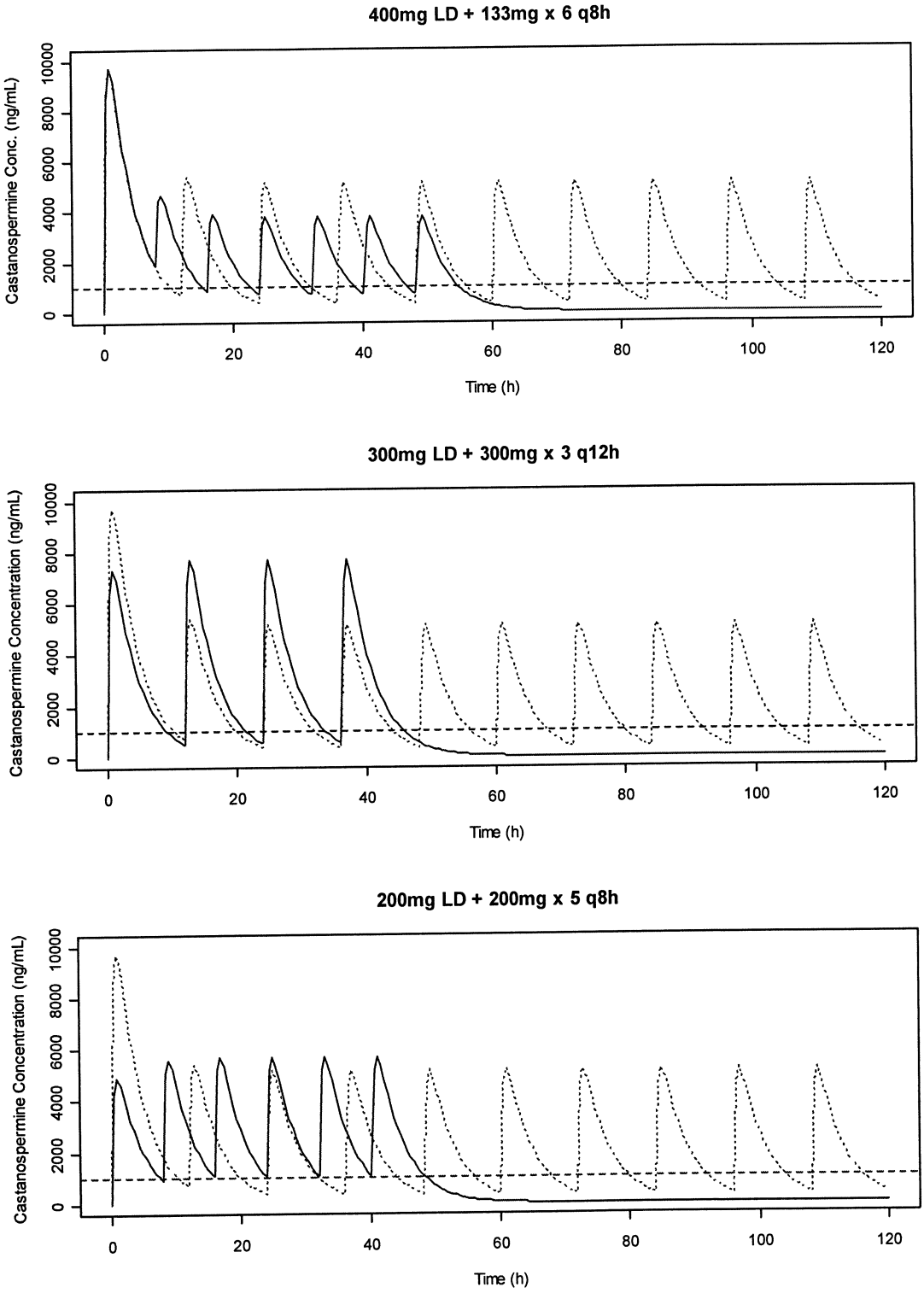


FIG. 8D, 8E and 8F

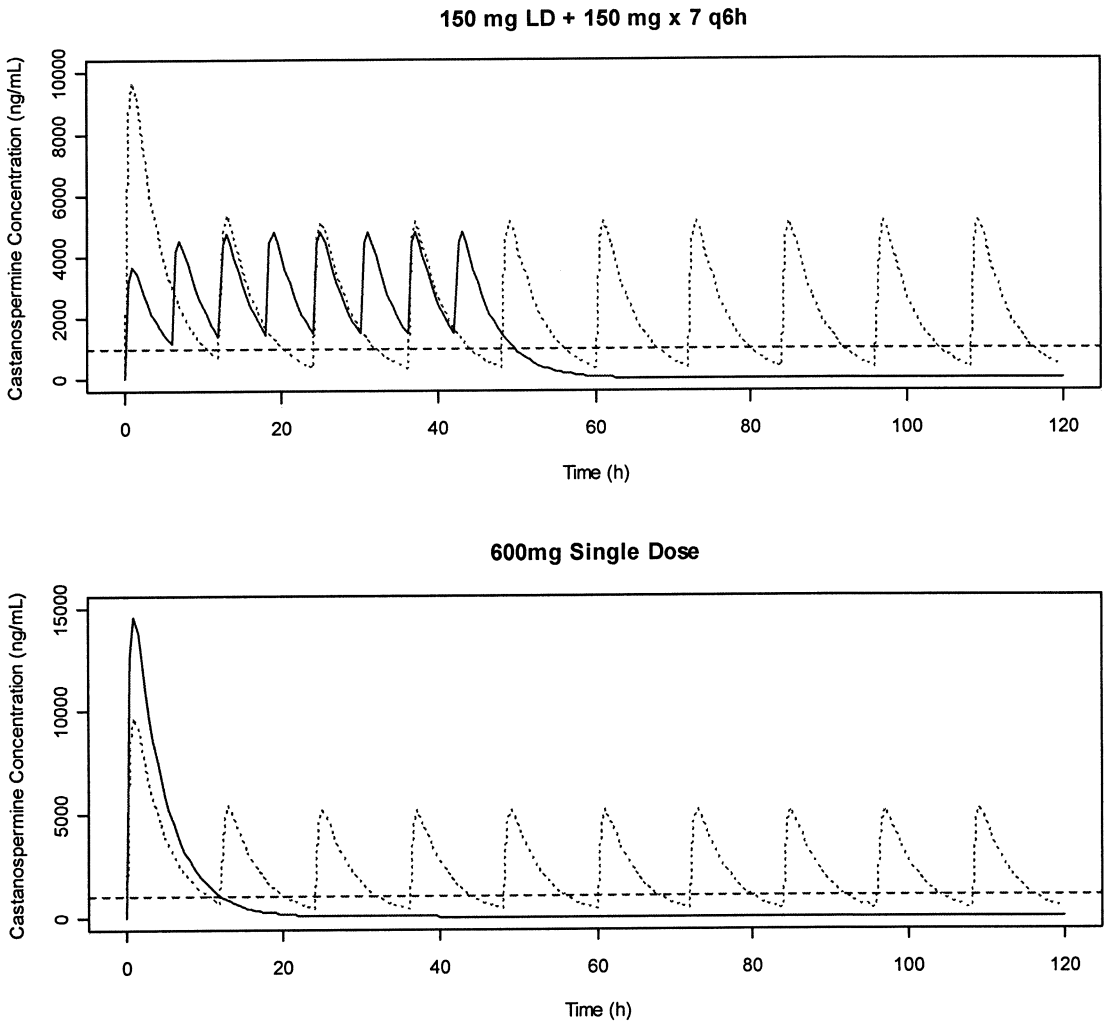

150 mg LD + 150 mg x 7 q6h
Castanospermine Concentration (ng/mL)
0
2000
4000
6000
8000
10000
0
20
40
60
80
100
120
Time (h)
600mg Single Dose
Castanospermine Concentration (ng/mL)
0
5000
10000
15000
0
20
40
60
80
100
120
Time (h)

FIG. 8G and 8H