Figure 1A

Figure 1B

Figure 1C

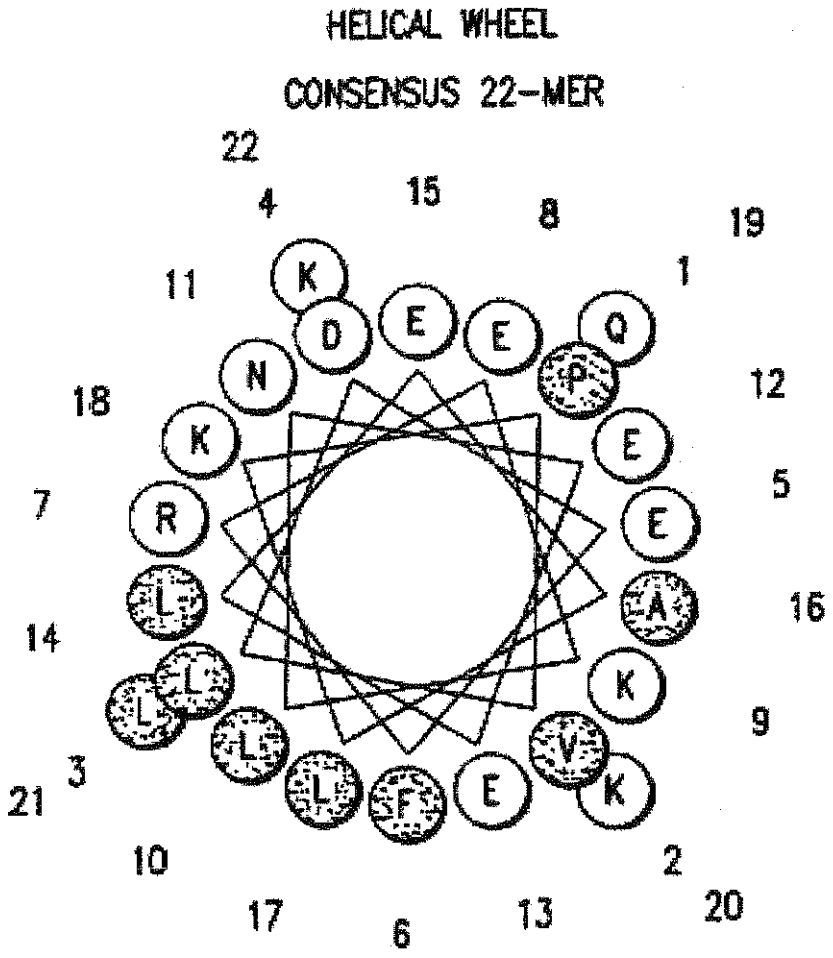

HELICAL WHEEL
CONSENSUS 22-MER
22
4
15
8
19
1
11
K
D
E
E
Q
N
P
12
18
K
E
5
7
R
E
L
A
16
14
L
K
L
9
L
V
L
F
E
K
3
21
10
2
17
6
13
20

Figure 2

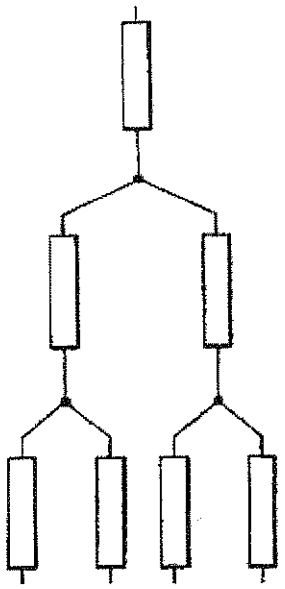


Figure 3A

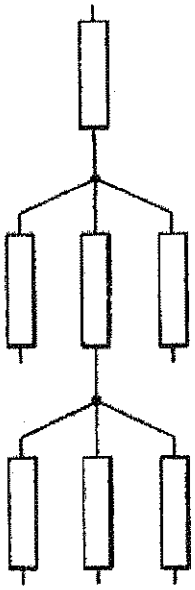


Figure 3B

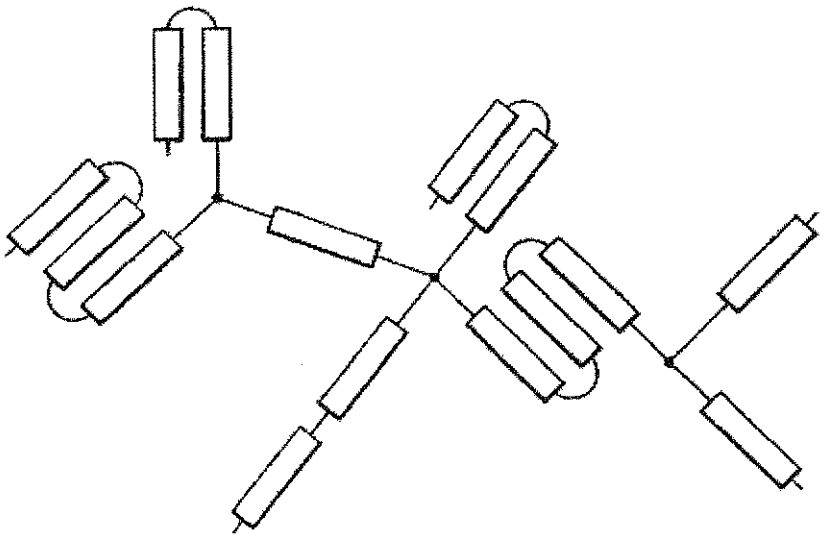


Figure 3C

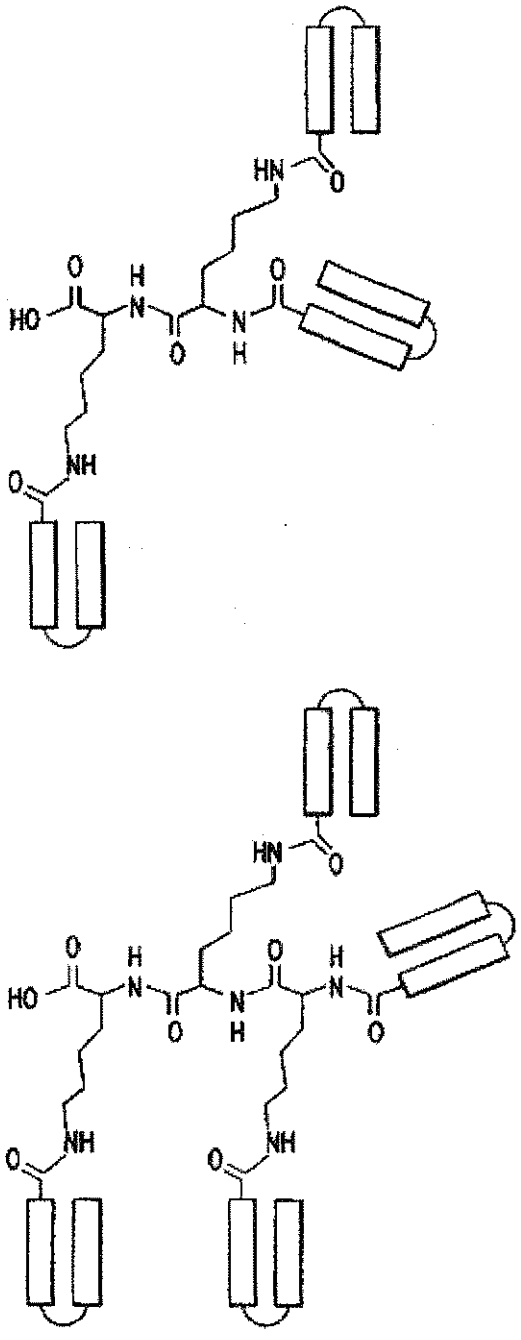


Figure 3D

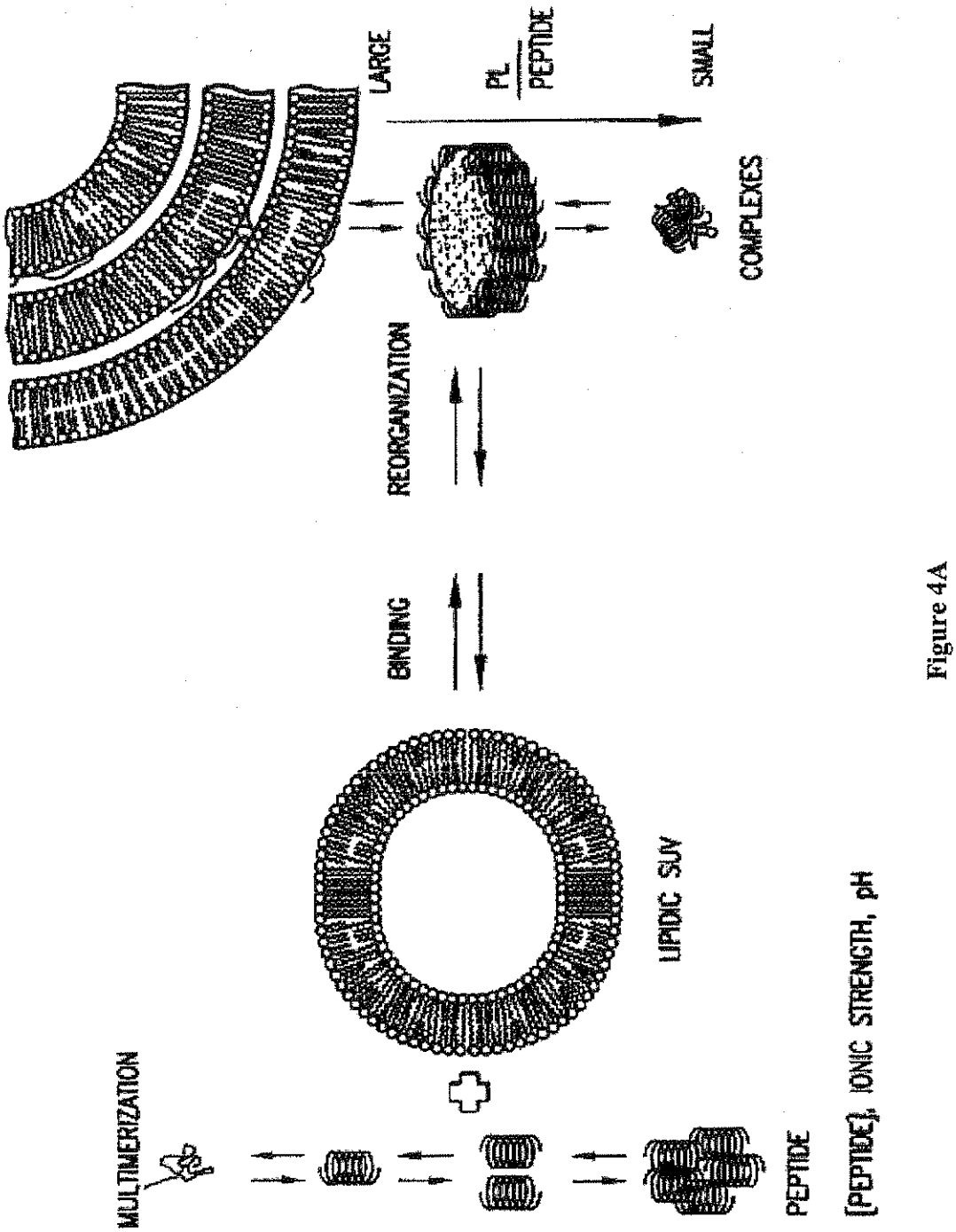

LARGE
PL / PEPTIDE
SMALL
COMPLEXES
REORGANIZATION
BINDING
LIPIDIC SUV
MULTIMERIZATION
PEPTIDE
[PEPTIDE], IONIC STRENGTH, pH

Figure 4A

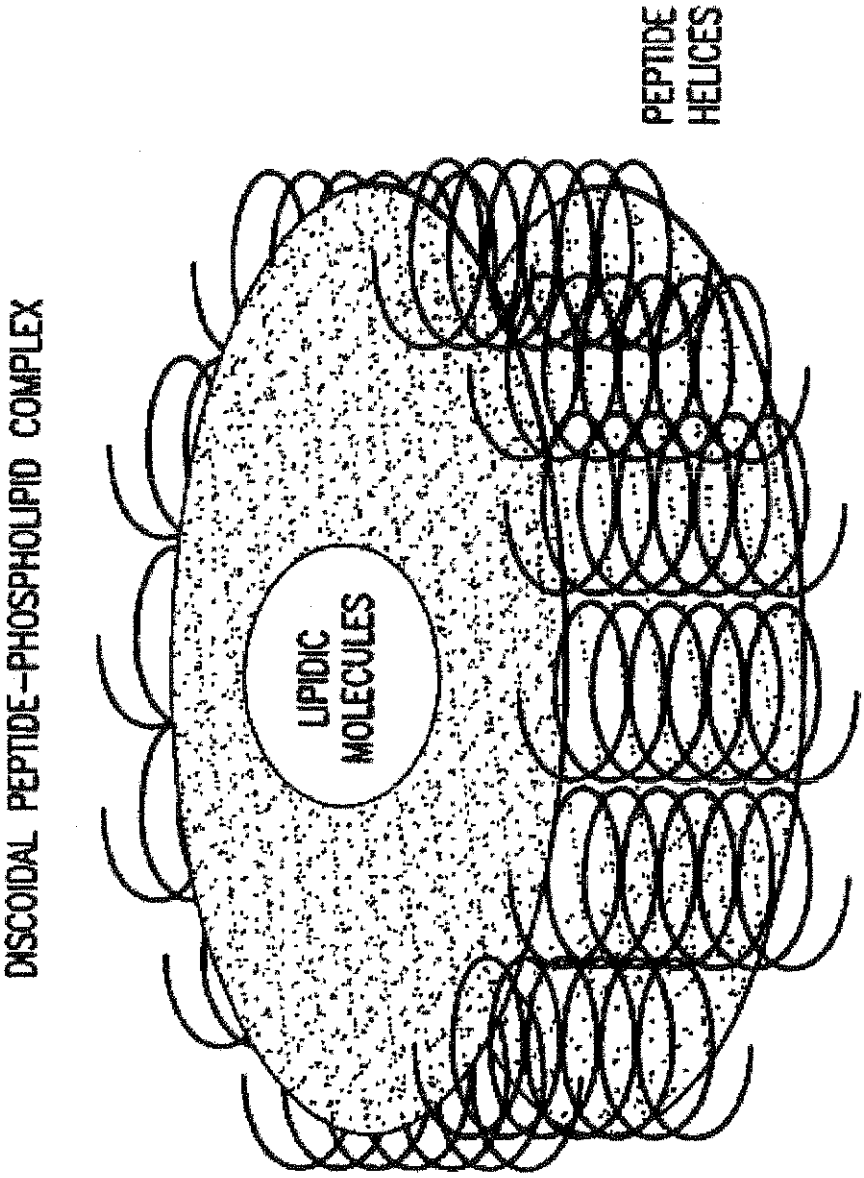

DISCOIDAL PEPTIDE-PHOSPHOLIPID COMPLEX
LIPIDIC MOLECULES
PEPTIDE HELICES

Figure 4B

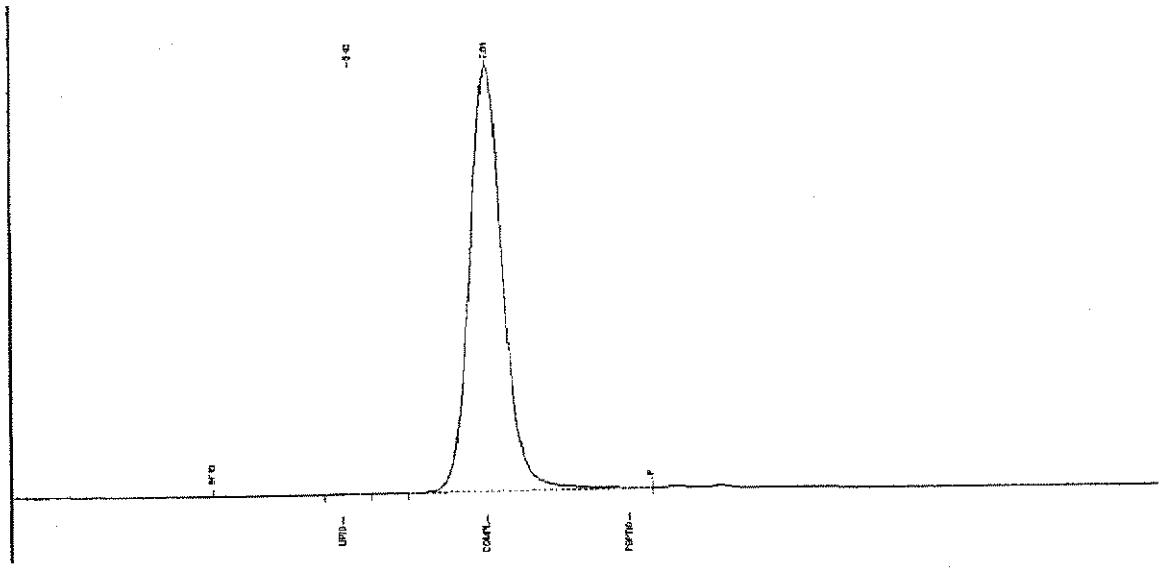


Figure 5

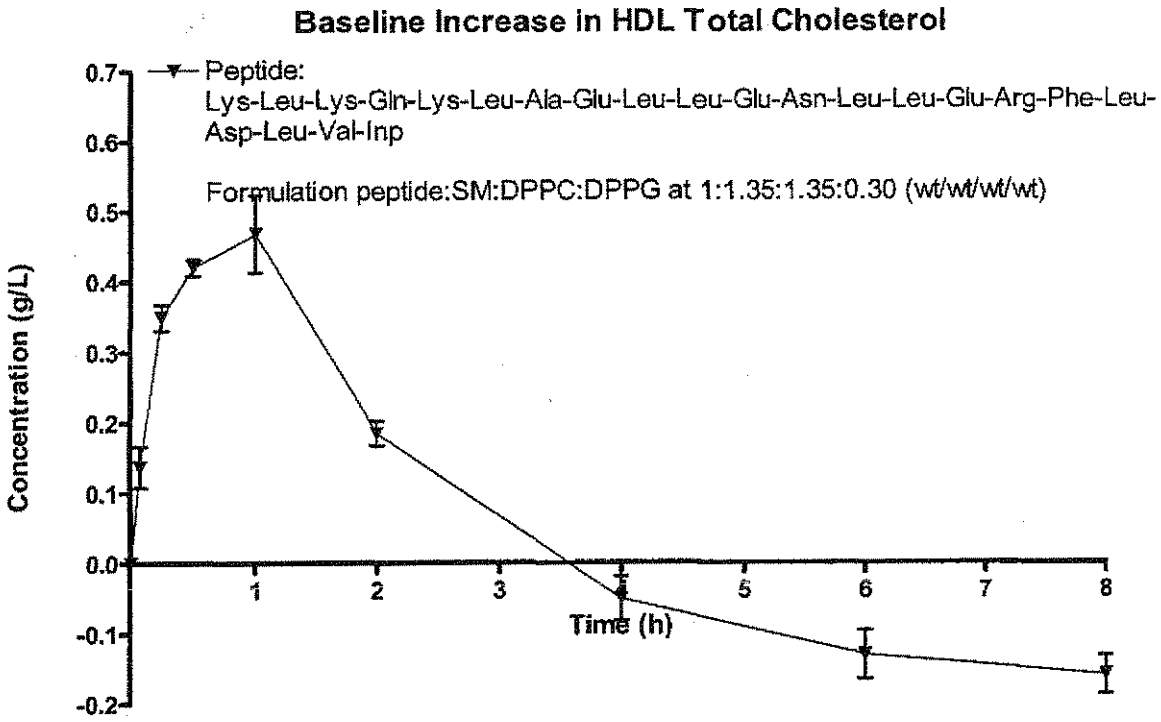

Baseline Increase in HDL Total Cholesterol
Peptide:
Lys-Leu-Lys-Gln-Lys-Leu-Ala-Glu-Leu-Leu-Glu-Asn-Leu-Leu-Glu-Arg-Phe-Leu-Asp-Leu-Val-Inp
Formulation peptide:SM:DPPC:DPPG at 1:1.35:1.35:0.30 (wt/wt/wt/wt)
Concentration (g/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
-0.2
1
2
3
5
6
7
8
Time (h)

Figure 6

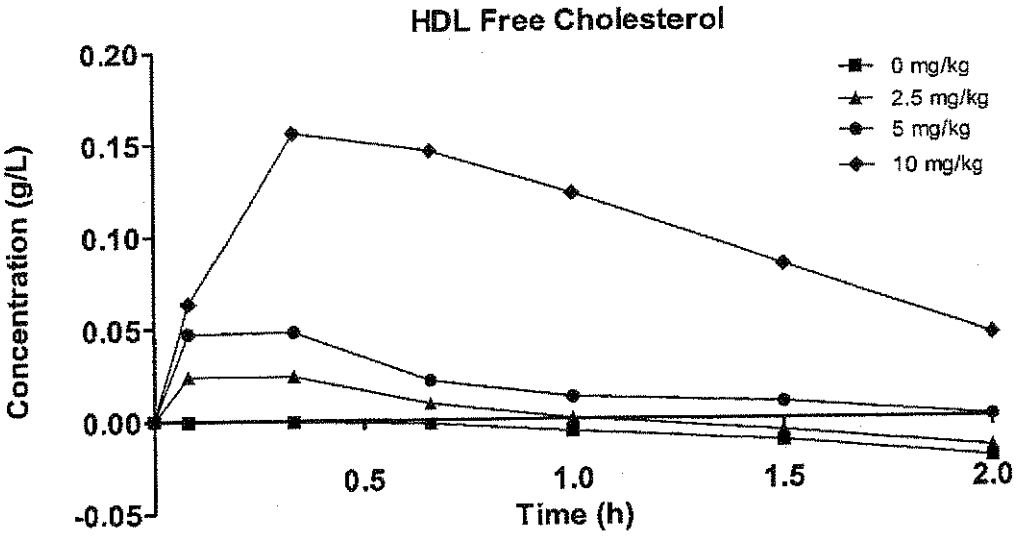

HDL Free Cholesterol
0 mg/kg
2.5 mg/kg
5 mg/kg
10 mg/kg
Concentration (g/L)
0.20
0.15
0.10
0.05
0.00
-0.05
0.5
1.0
1.5
2.0
Time (h)

Figure 7

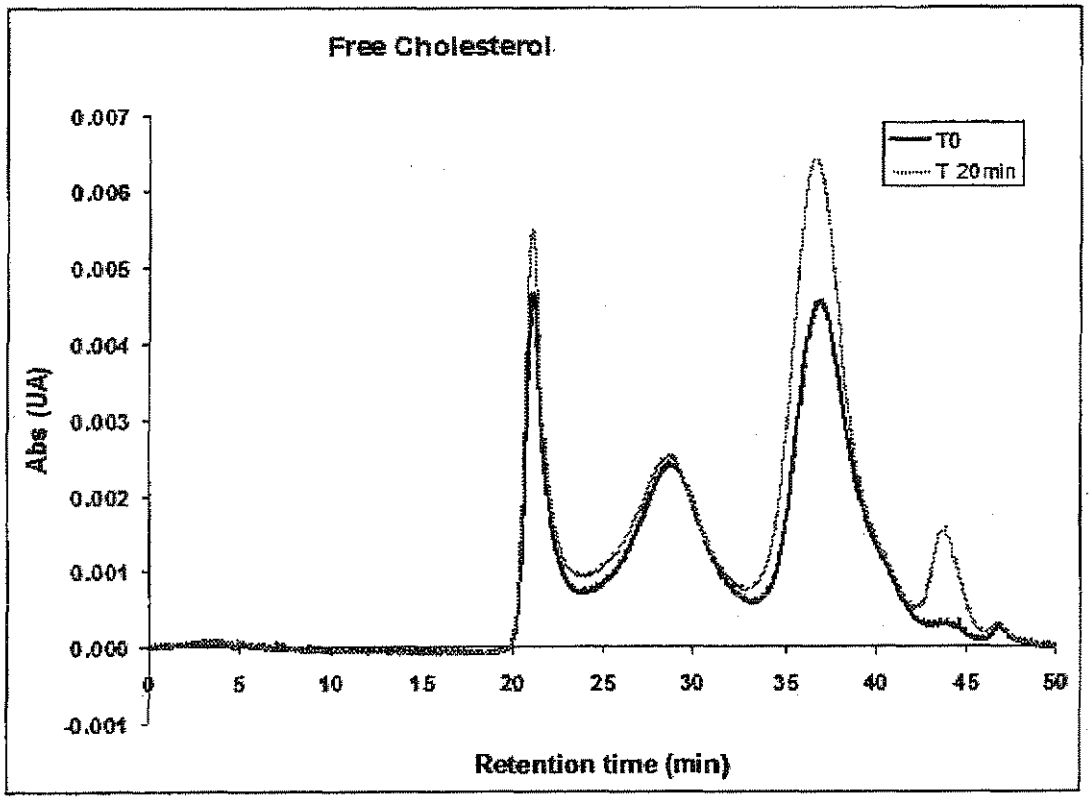

Free Cholesterol
T0
T 20 min
Abs (UA)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
-0.001
0
5
10
15
20
25
30
35
40
45
50
Retention time (min)

Figure 8

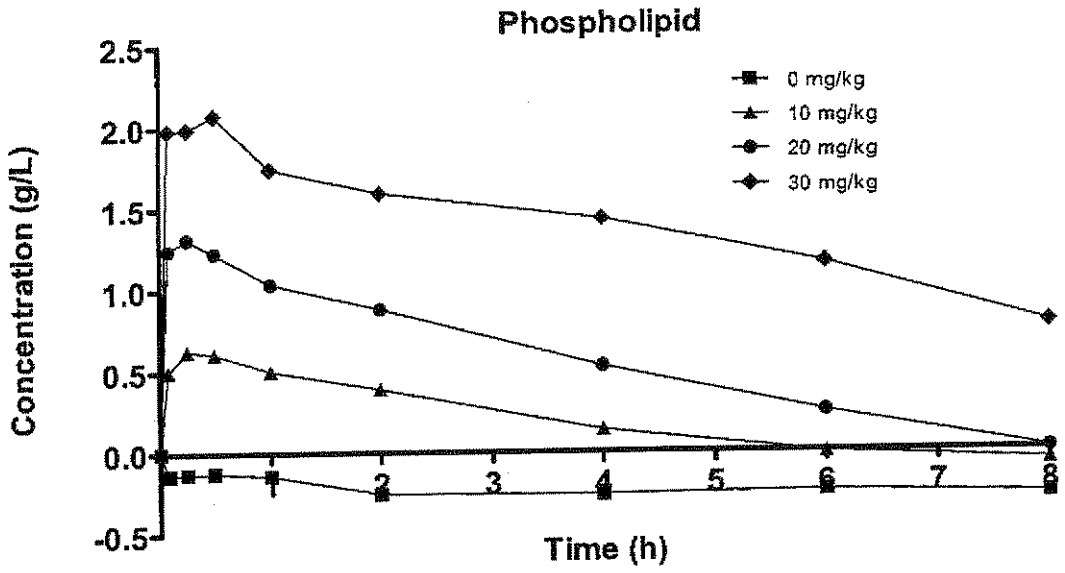

Phospholipid
0 mg/kg
10 mg/kg
20 mg/kg
30 mg/kg
Concentration (g/L)
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
1
2
3
4
5
6
7
8
Time (h)

Figure 9

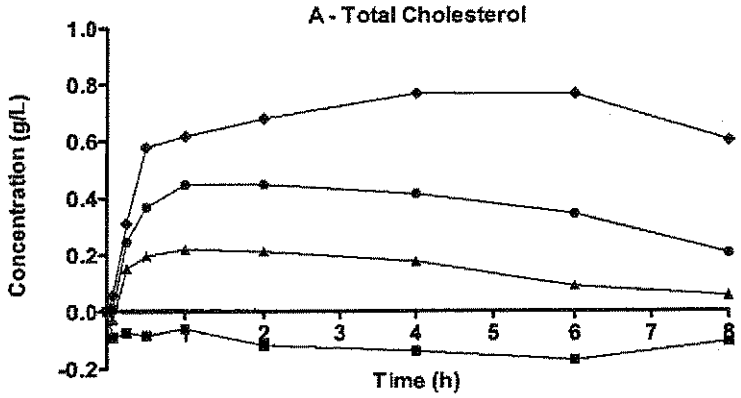


Figure 10A

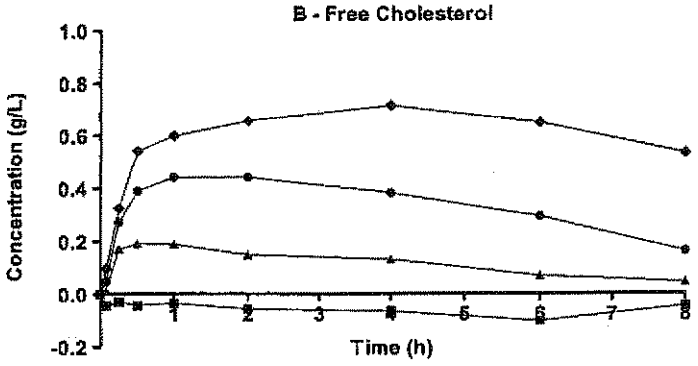


Figure 10B

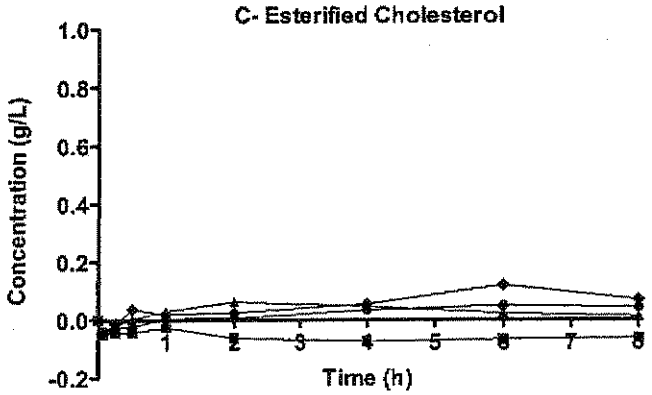


Figure 10C

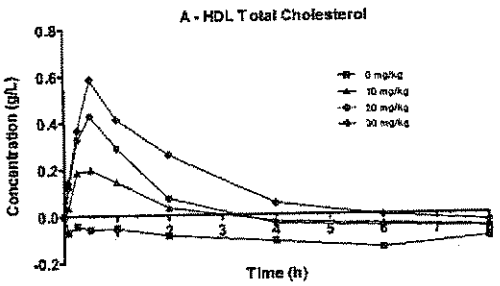


Figure 11A

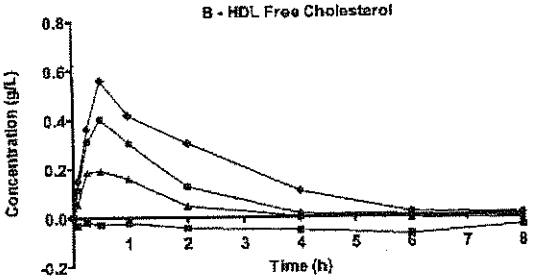


Figure 11B

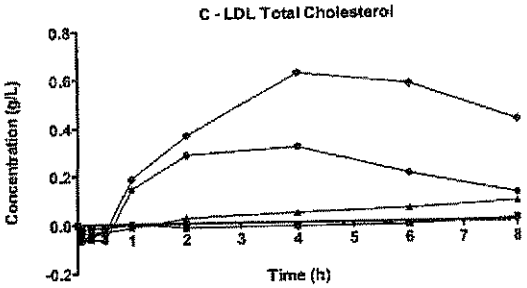


Figure 11C

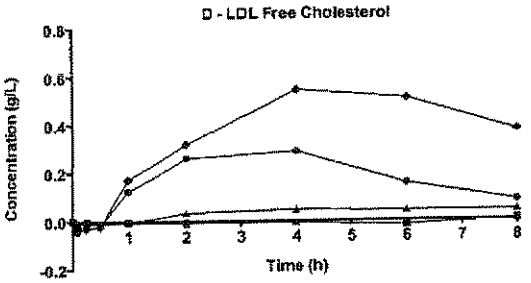


Figure 11D

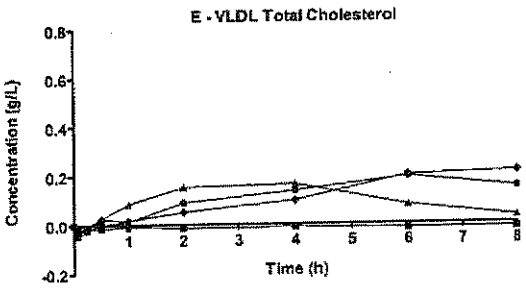


Figure 11E

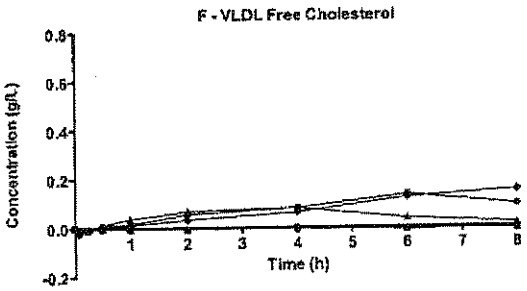


Figure 11F

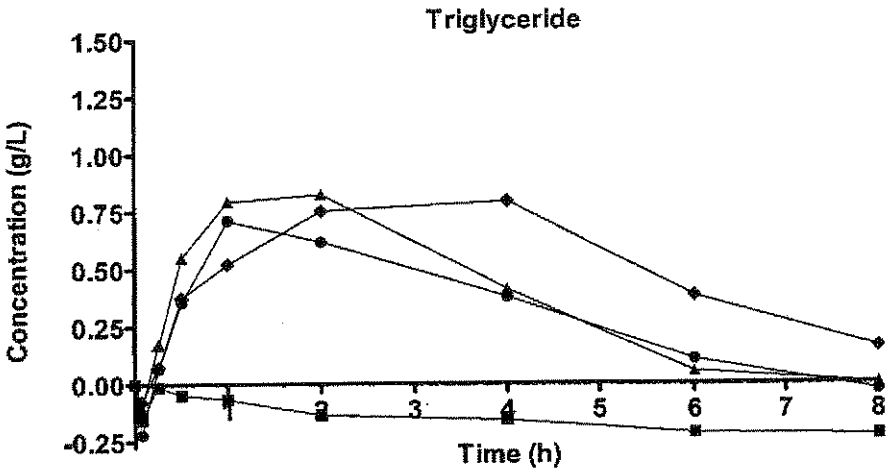

Triglyceride
Concentration (g/L)
1.50
1.25
1.00
0.75
0.50
0.25
0.00
-0.25
1
2
3
4
5
6
7
8
Time (h)

Figure 12

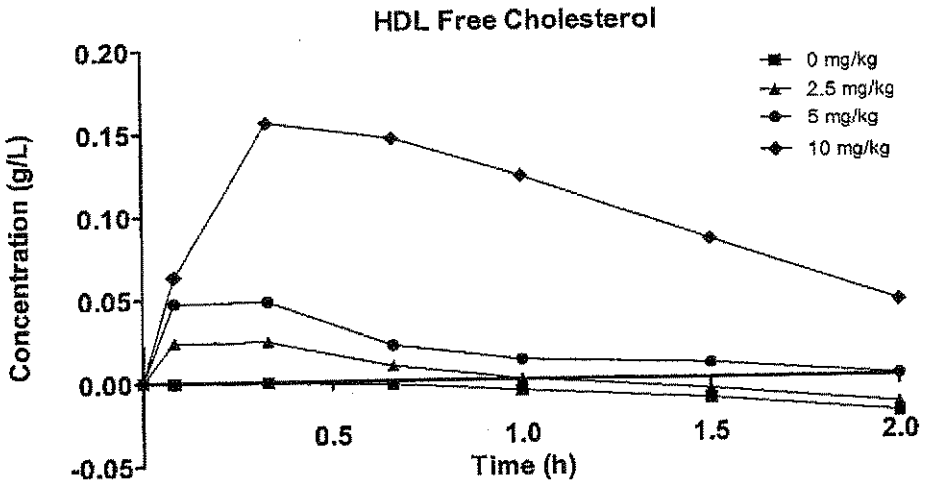

HDL Free Cholesterol
0 mg/kg
2.5 mg/kg
5 mg/kg
10 mg/kg
Concentration (g/L)
0.20
0.15
0.10
0.05
0.00
-0.05
0.5
1.0
1.5
2.0
Time (h)

Figure 13

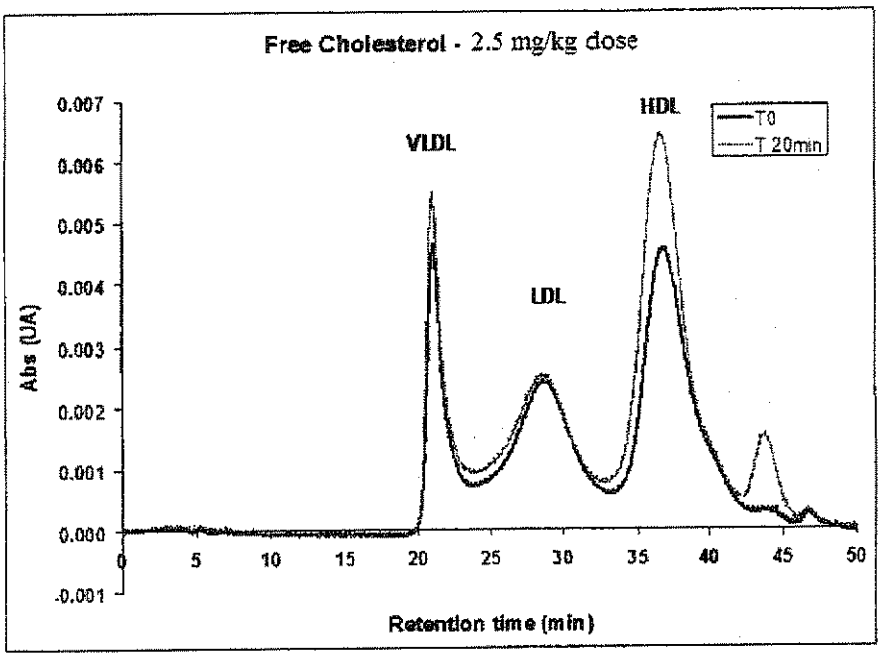


Figure 14A

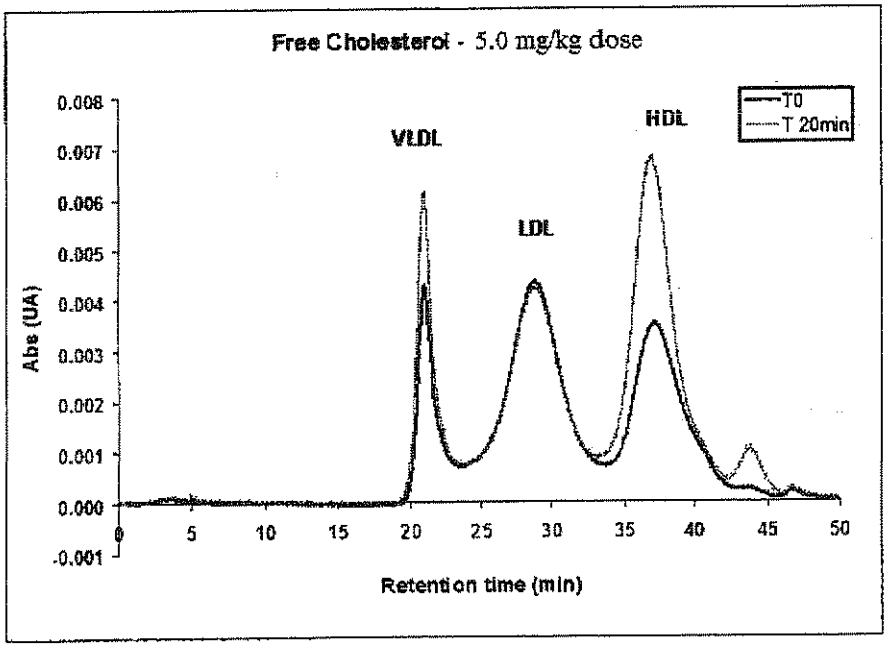


Figure 14B

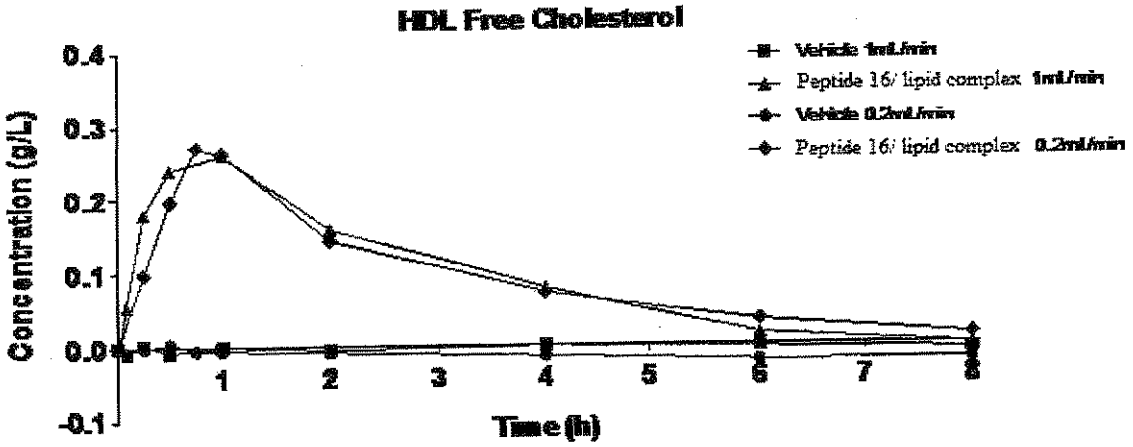

HDL Free Cholesterol
Concentration (g/L)
0.4
0.3
0.2
0.1
0.0
-0.1
1
2
3
4
5
6
7
8
Time (h)
Peptide 16/ lipid complex 1ml/min
Peptide 16/ lipid complex 0.2ml/min

Figure 15

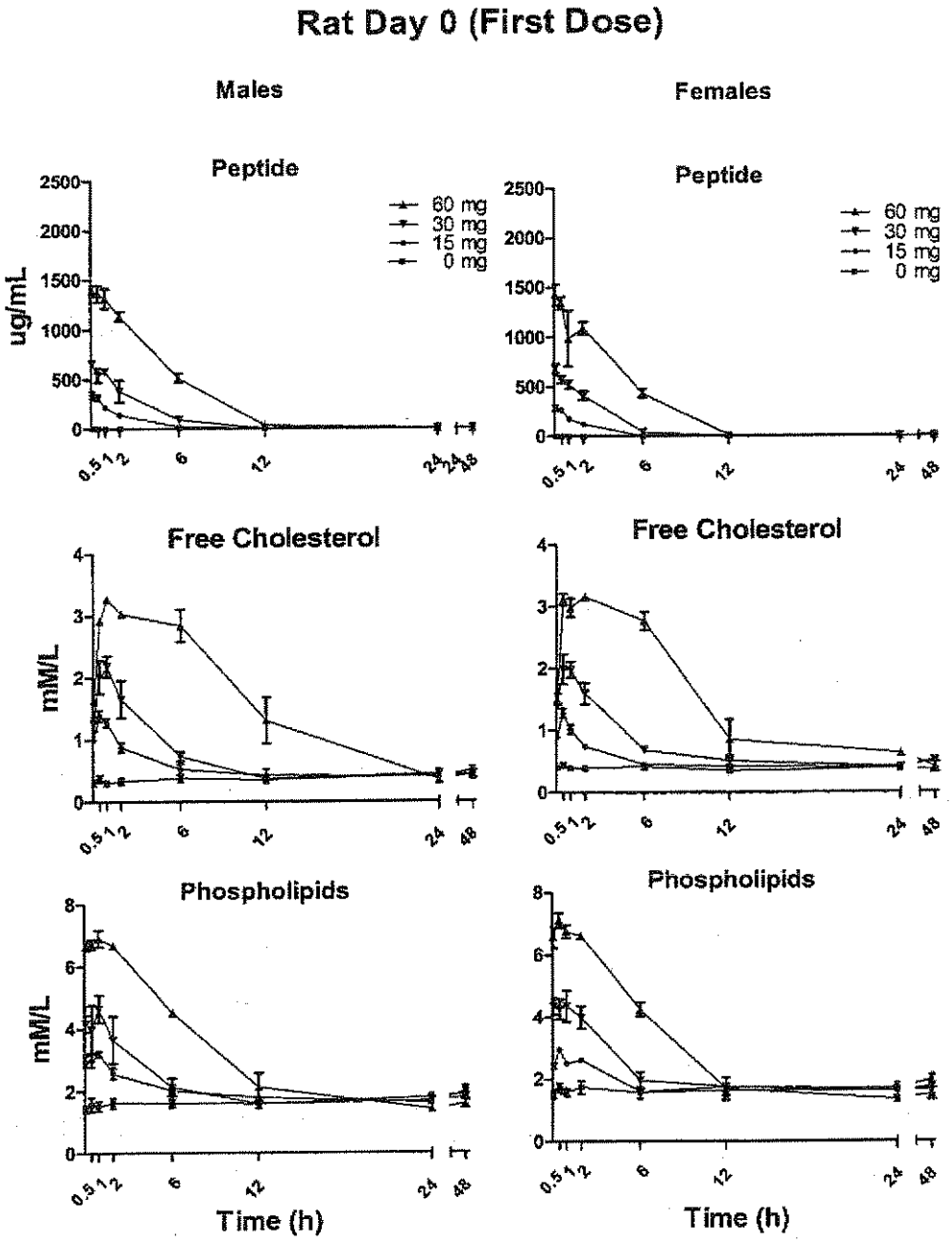

Rat Day 0 (First Dose)
Males
Females
Peptide
Peptide
60 mg
30 mg
15 mg
0 mg
ug/mL
Free Cholesterol
Free Cholesterol
mM/L
Phospholipids
Phospholipids
mM/L
Time (h)
Time (h)

Figure 16

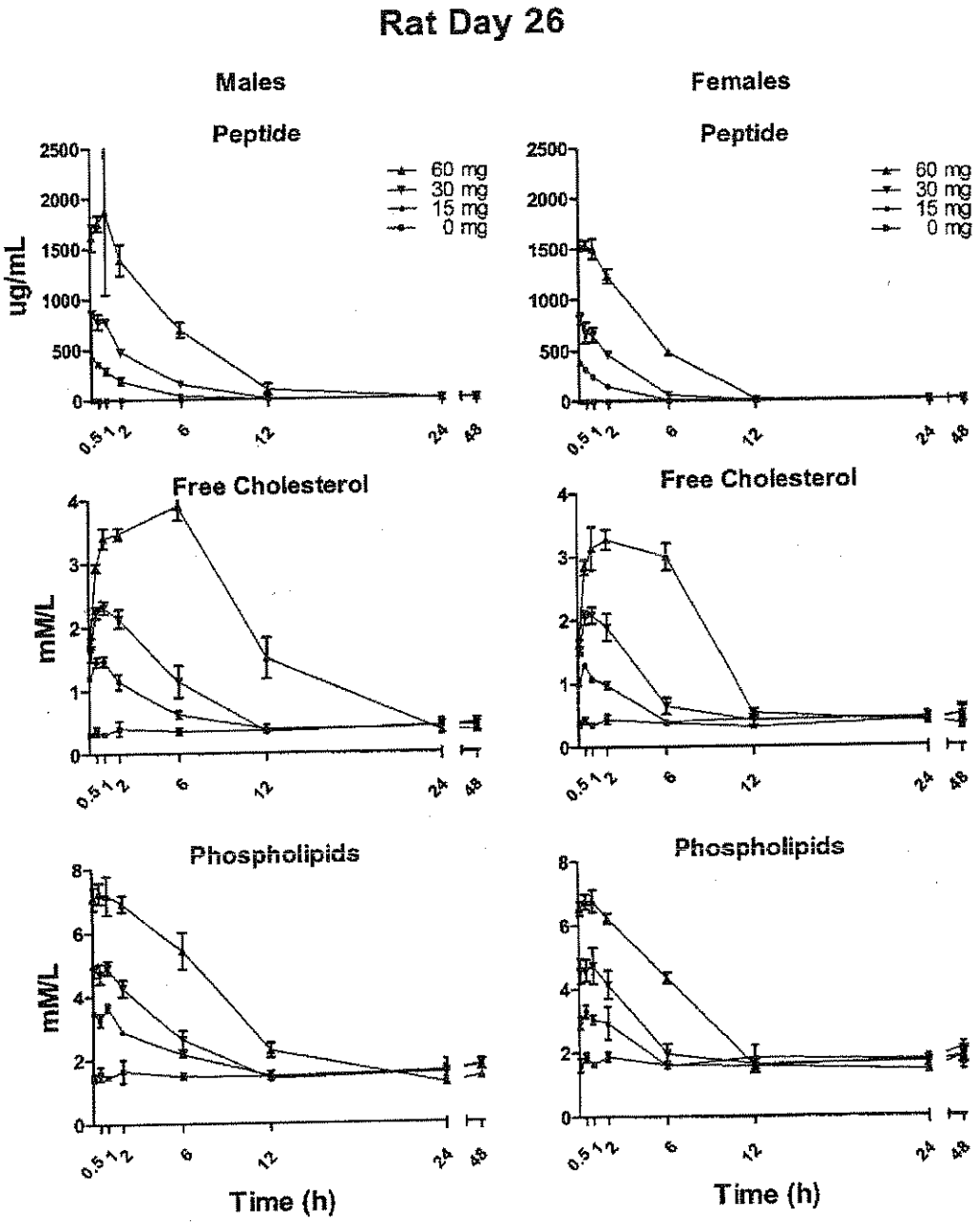

Rat Day 26
Males
Peptide
ug/mL
60 mg
30 mg
15 mg
0 mg
Free Cholesterol
mM/L
Phospholipids
mM/L
Time (h)
Females
Peptide
60 mg
30 mg
15 mg
0 mg
Free Cholesterol
Phospholipids
Time (h)

Figure 17

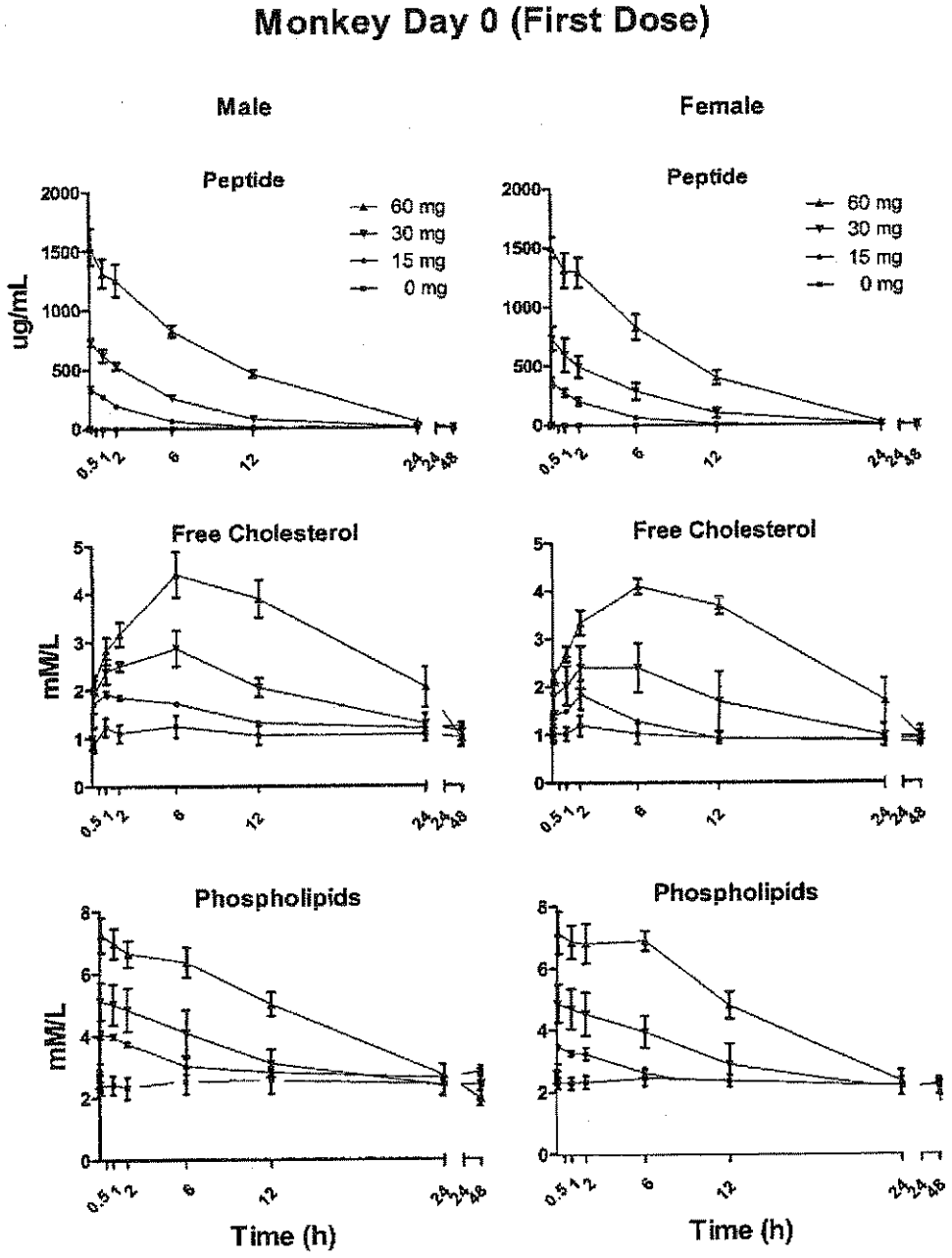

Monkey Day 0 (First Dose)
Male
Female
Peptide
Peptide
60 mg
30 mg
15 mg
0 mg
ug/mL
Free Cholesterol
Free Cholesterol
mM/L
Phospholipids
Phospholipids
mM/L
Time (h)
Time (h)

Figure 18

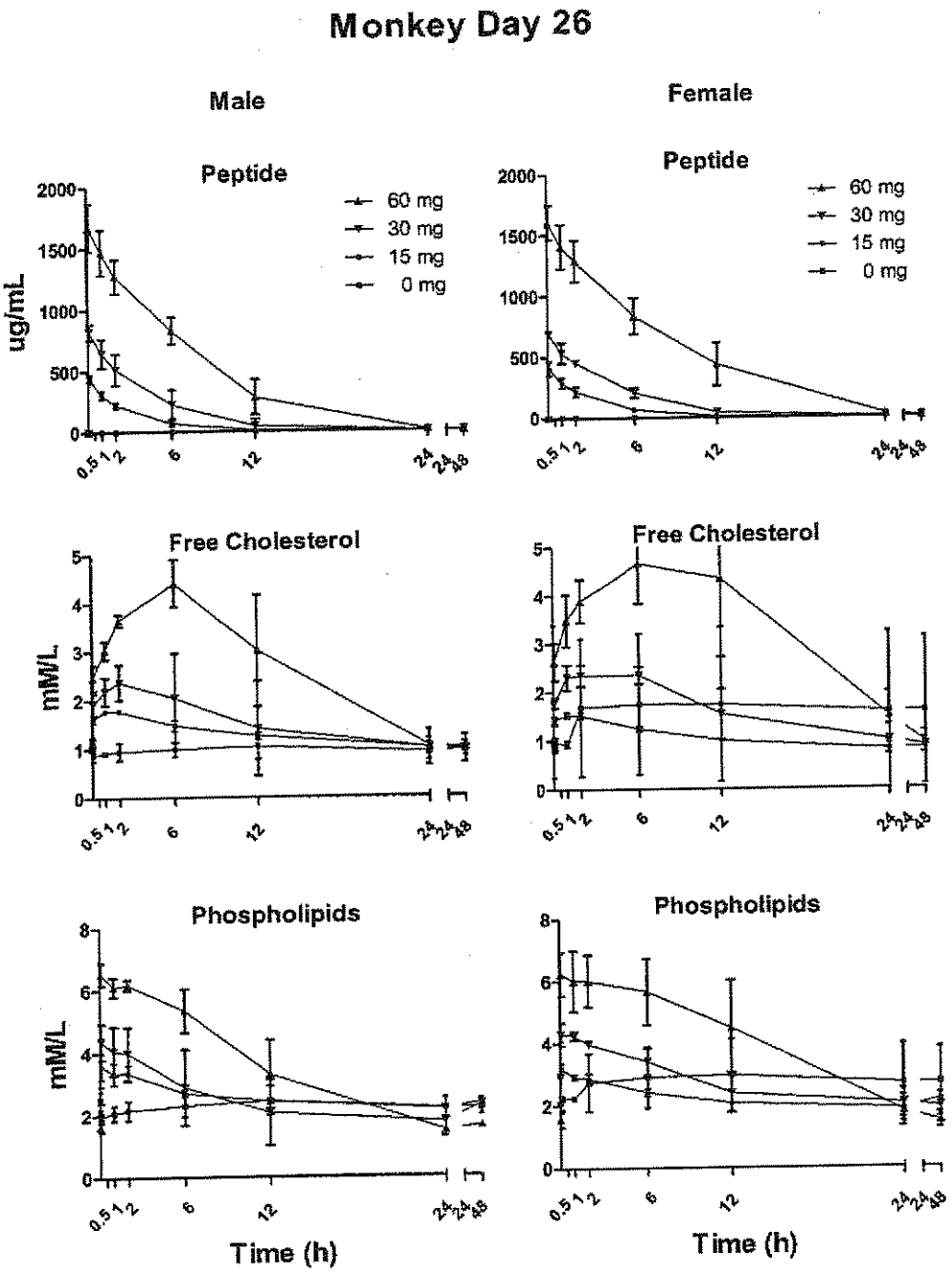

Monkey Day 26
Male
Female
Peptide
Peptide
60 mg
30 mg
15 mg
0 mg
ug/mL
Free Cholesterol
Free Cholesterol
mM/L
Phospholipids
Phospholipids
mM/L
Time (h)
Time (h)

Figure 19

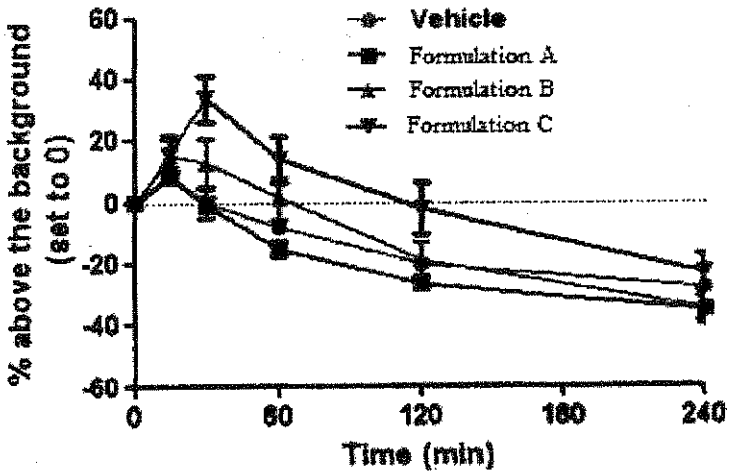


Figure 20A

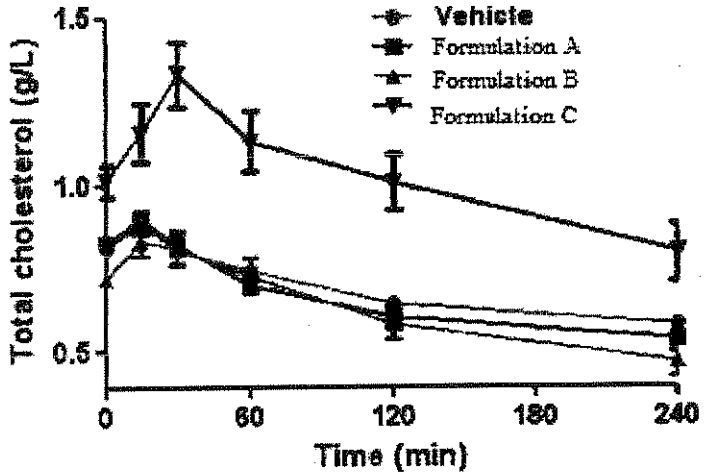


Figure 20B

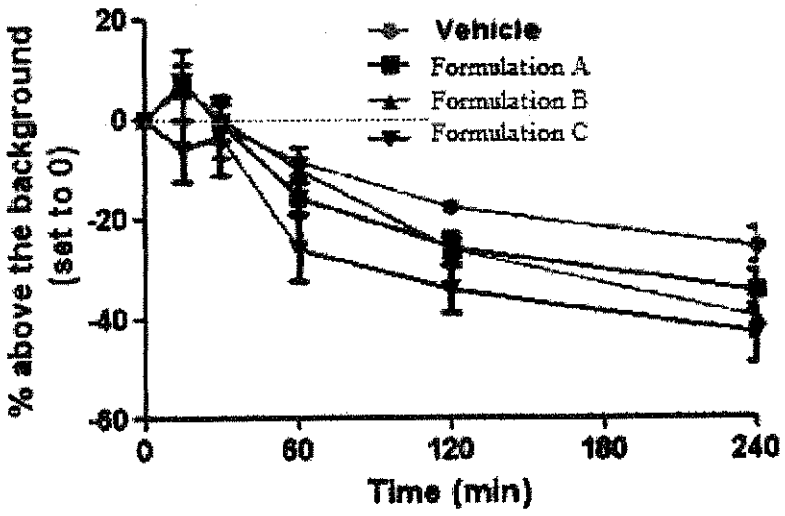


Figure 21A

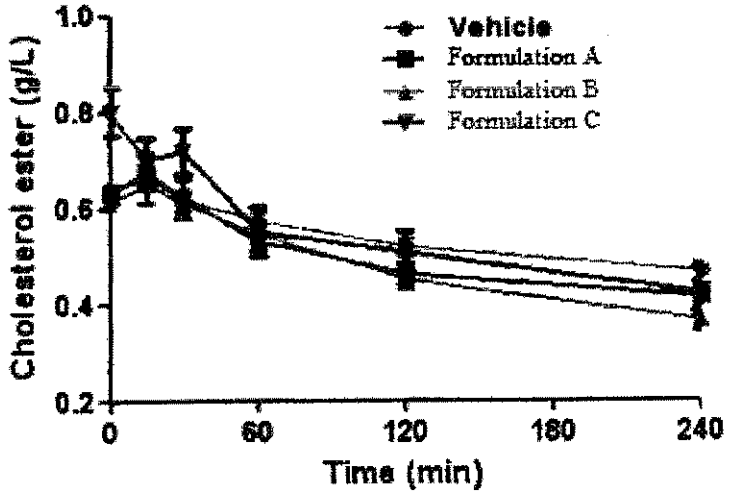


Figure 21B