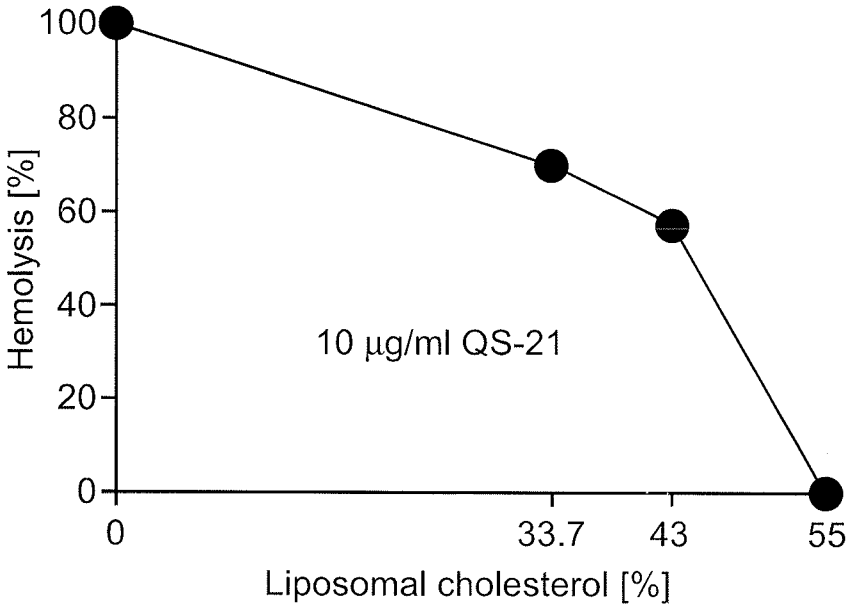

100
80
60
40
20
0
Hemolysis [%]
10 µg/ml QS-21
0
33.7
43
55
Liposomal cholesterol [%]

FIG. 1A

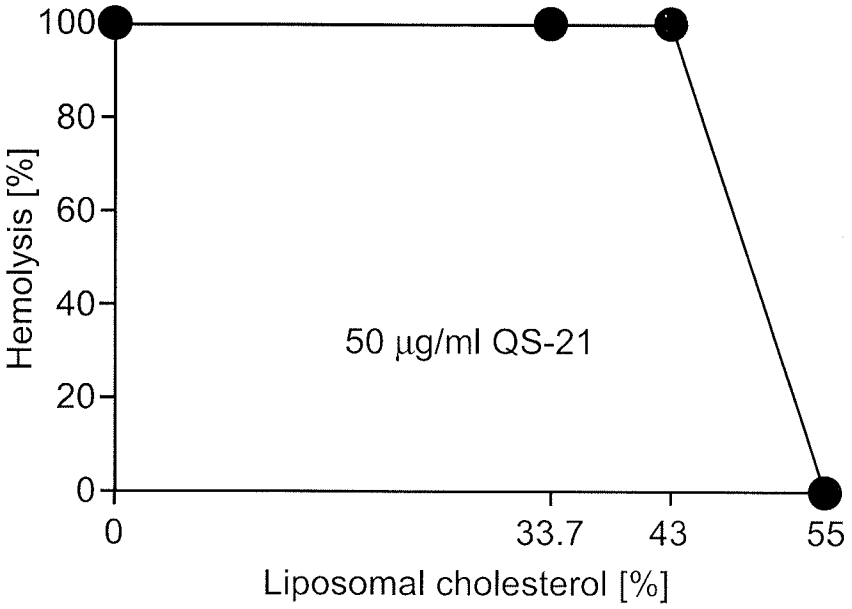

100
80
60
40
20
0
Hemolysis [%]
50 µg/ml QS-21
0
33.7
43
55
Liposomal cholesterol [%]

FIG. 1B

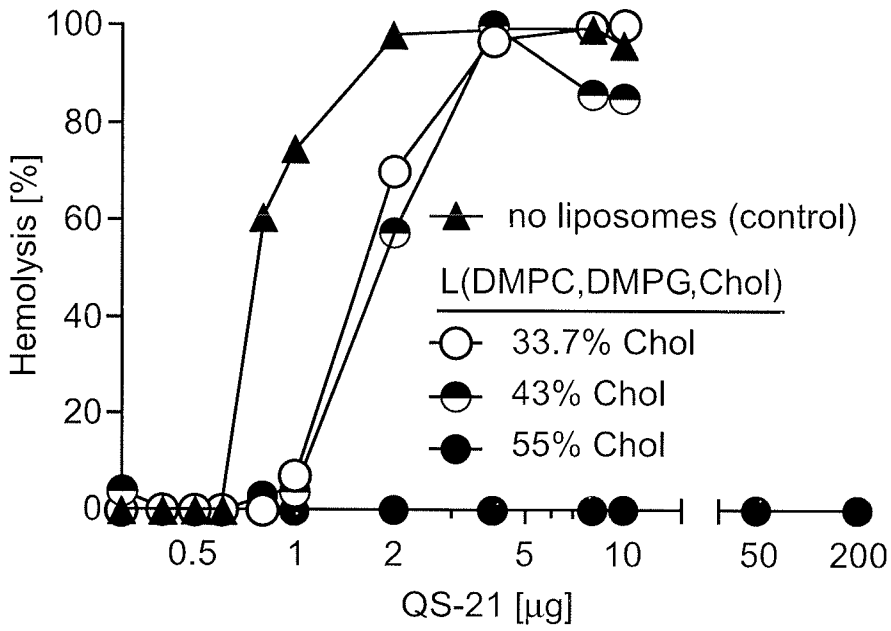

100
80
60
40
20
0
Hemolysis [%]
no liposomes (control)
L(DMPC,DMPG,Chol)
33.7% Chol
43% Chol
55% Chol
0.5
1
2
5
10
50
200
QS-21 [µg]

FIG. 2

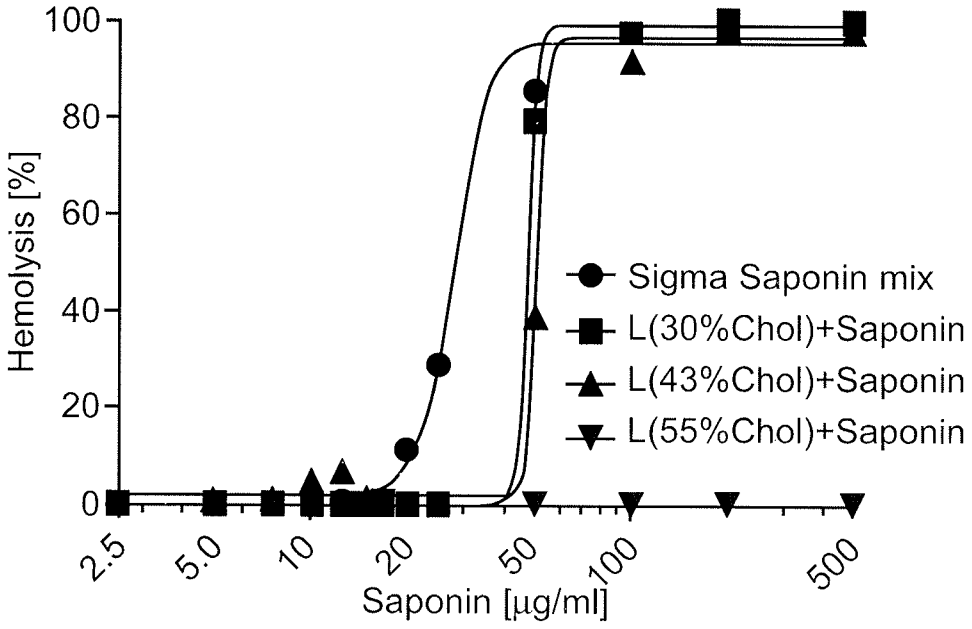

100
80
60
40
20
0
Hemolysis [%]
Sigma Saponin mix
L(30%Chol)+Saponin
L(43%Chol)+Saponin
L(55%Chol)+Saponin
2.5
5.0
10
20
50
100
500
Saponin [µg/ml]

FIG. 3

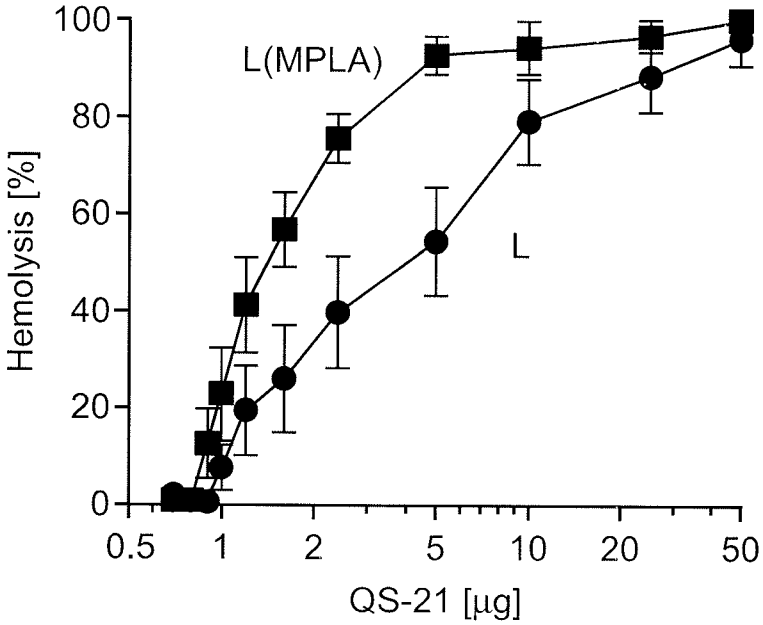


FIG. 4

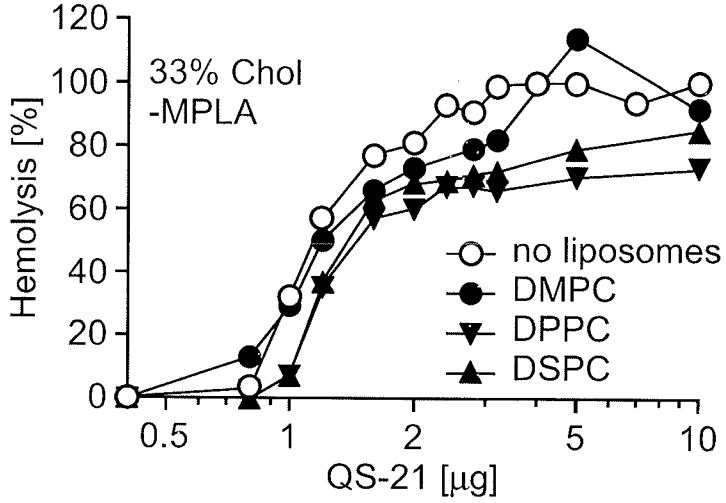


FIG. 5A

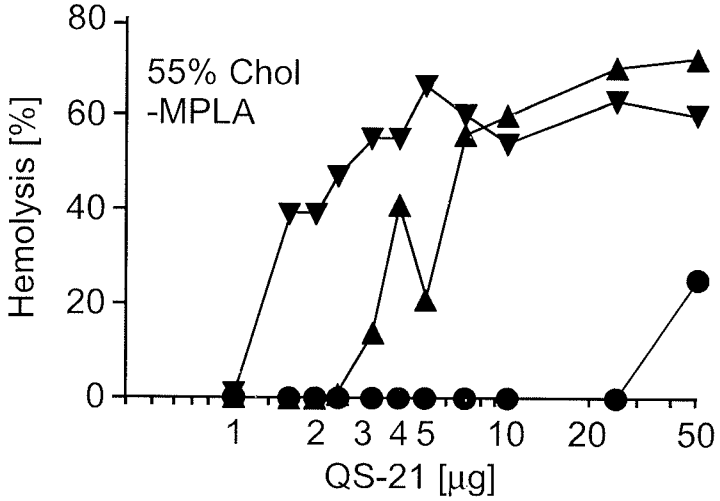


FIG. 5B

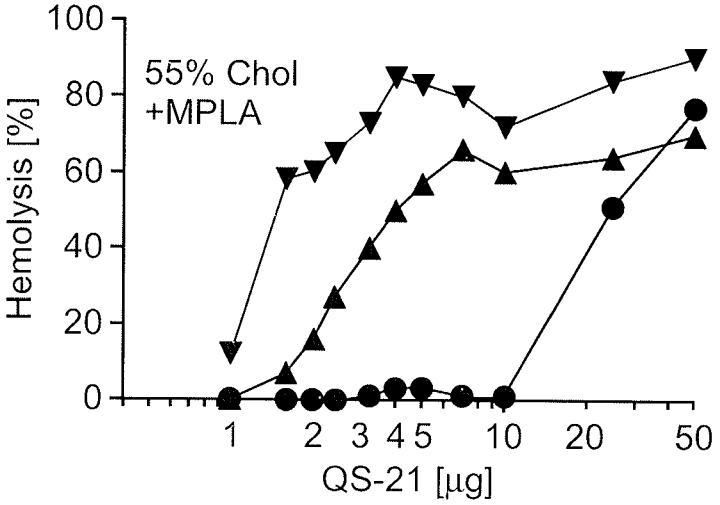


FIG. 5C

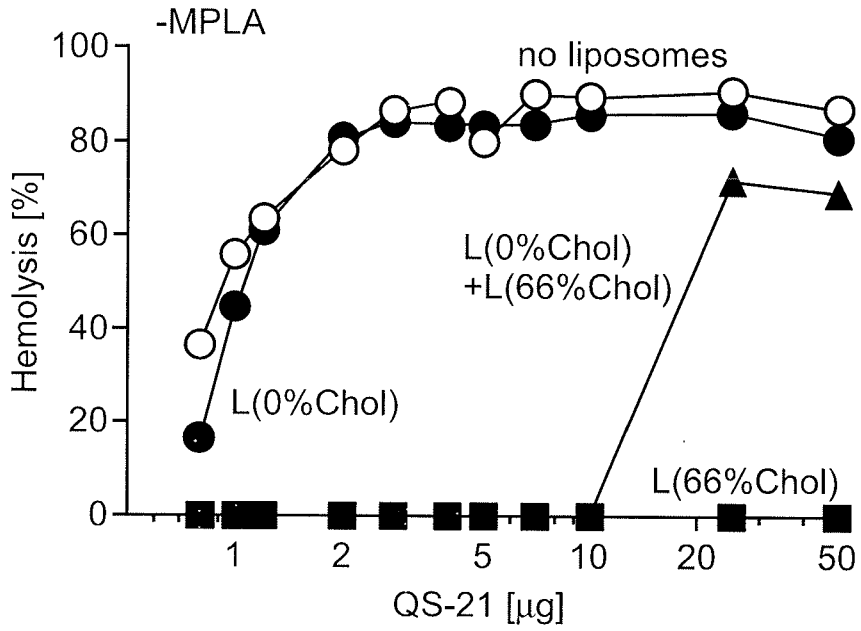

-MPLA
no liposomes
L(0%Chol)
+L(66%Chol)
L(0%Chol)
L(66%Chol)
Hemolysis [%]
100
80
60
40
20
0
1
2
5
10
20
50
QS-21 [µg]

FIG. 6A

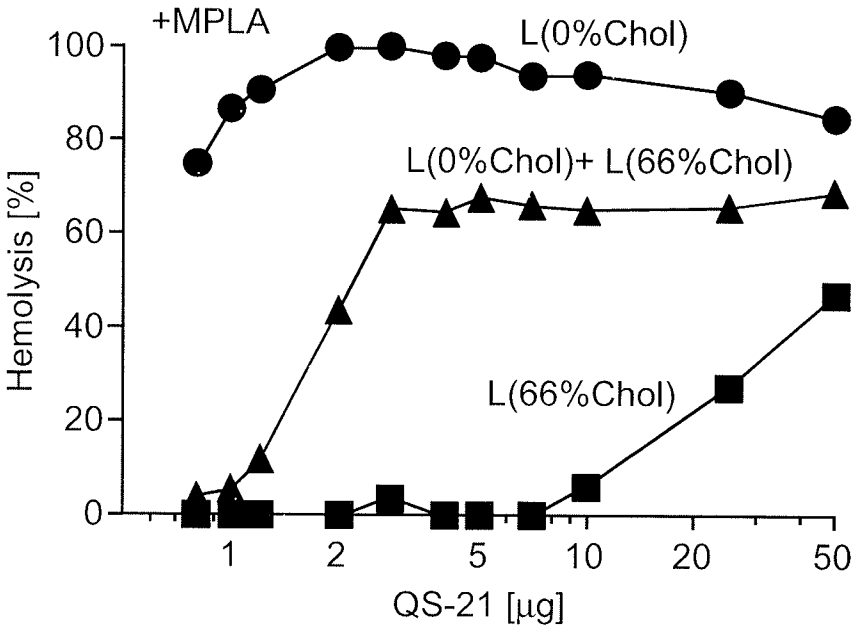

+MPLA
L(0%Chol)
L(0%Chol)+ L(66%Chol)
L(66%Chol)
Hemolysis [%]
100
80
60
40
20
0
1
2
5
10
20
50
QS-21 [µg]

FIG. 6B

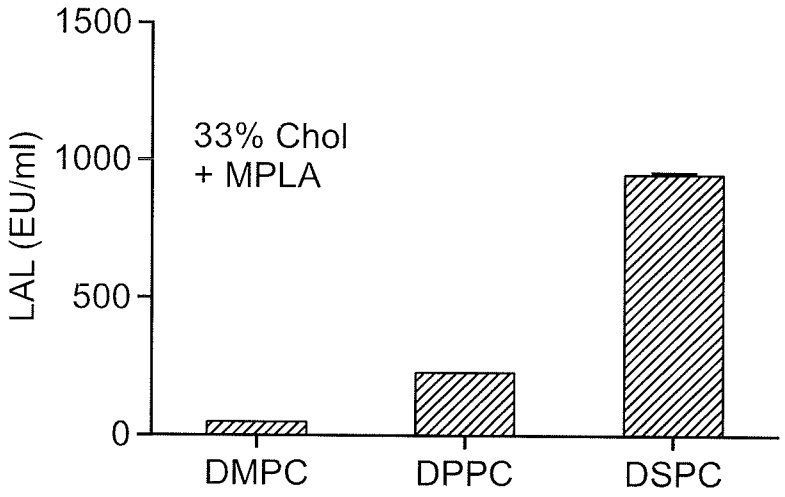

1500
1000
500
0
LAL (EU/ml)
33% Chol
+ MPLA
DMPC
DPPC
DSPC

FIG. 7A

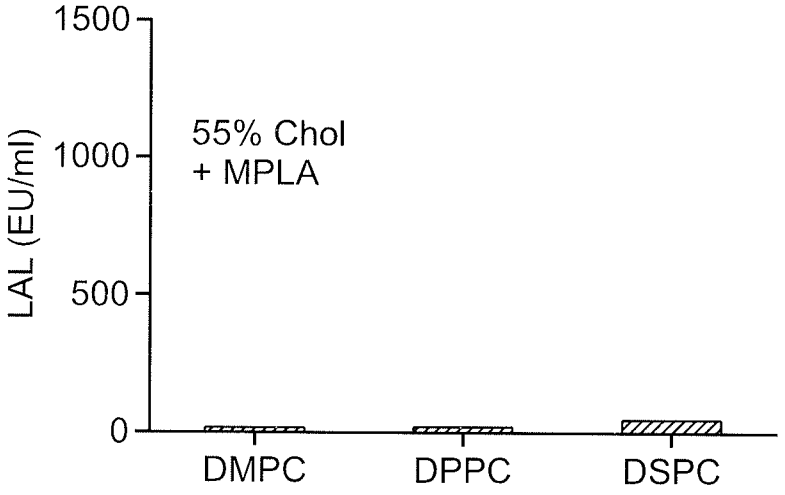

1500
1000
500
0
LAL (EU/ml)
55% Chol
+ MPLA
DMPC
DPPC
DSPC

FIG. 7B

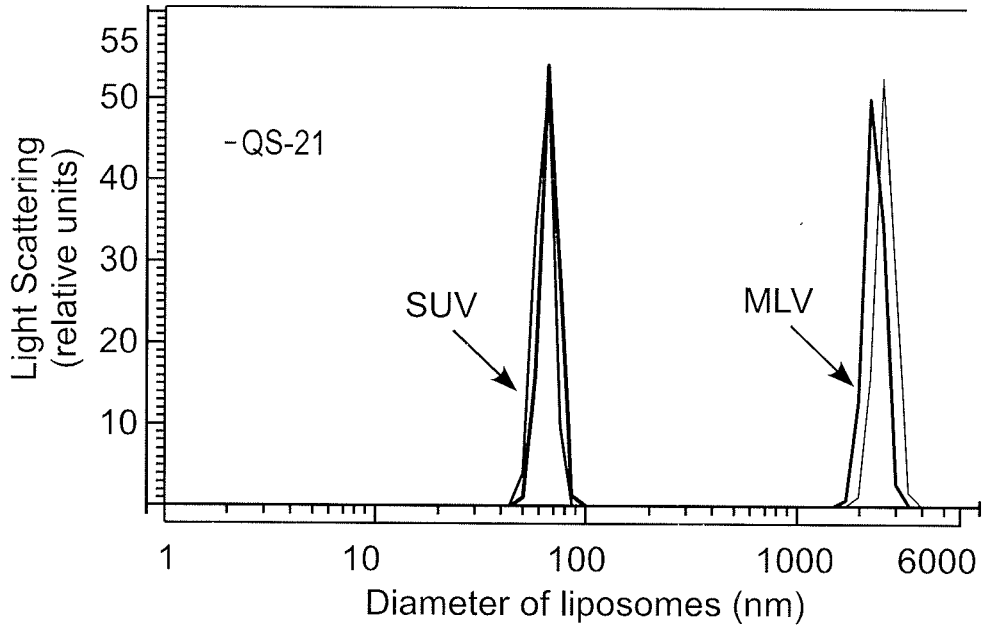

55
50
40
30
20
10
Light Scattering
(relative units)
-QS-21
SUV
MLV
1
10
100
1000
6000
Diameter of liposomes (nm)

FIG. 8A

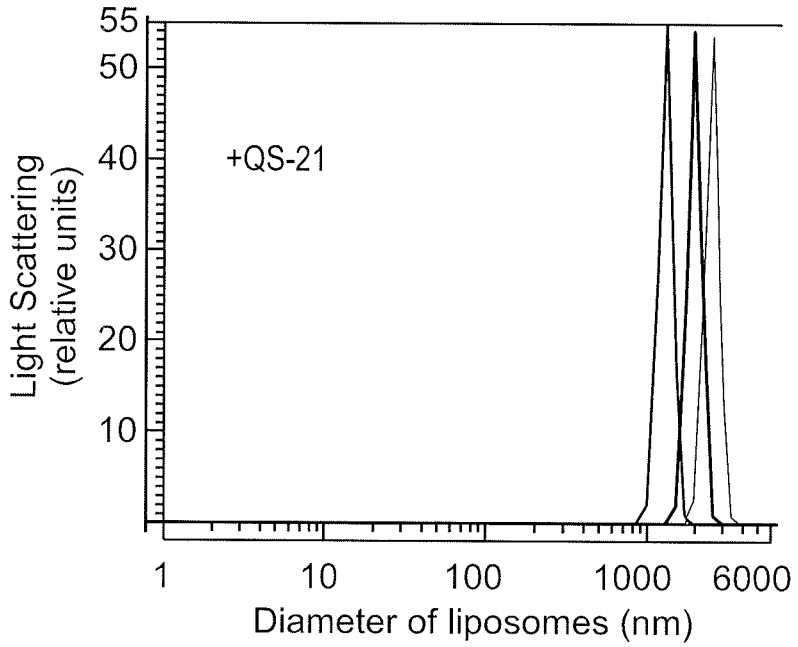

55
50
40
30
20
10
Light Scattering
(relative units)
+QS-21
1
10
100
1000
6000
Diameter of liposomes (nm)

FIG. 8B

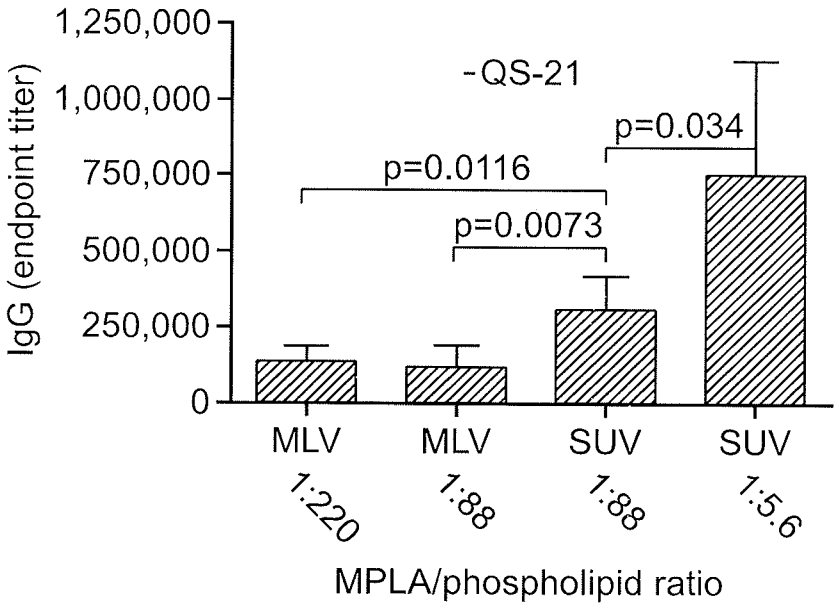

1,250,000
1,000,000
750,000
500,000
250,000
0
IgG (endpoint titer)
-QS-21
p=0.034
p=0.0116
p=0.0073
MLV
1:220
MLV
1:88
SUV
1:88
SUV
1:5.6
MPLA/phospholipid ratio

FIG. 9A

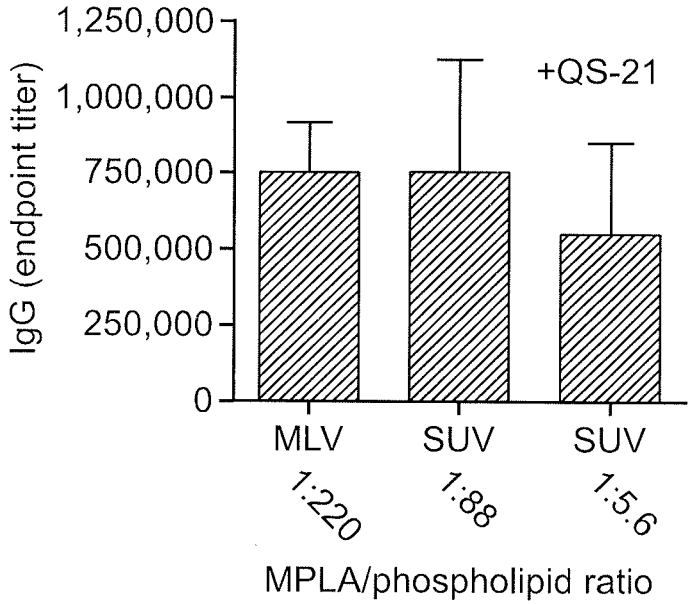

1,250,000
1,000,000
750,000
500,000
250,000
0
IgG (endpoint titer)
+QS-21
MLV
1:220
SUV
1:88
SUV
1:5.6
MPLA/phospholipid ratio

FIG. 9B

FIG. 10A

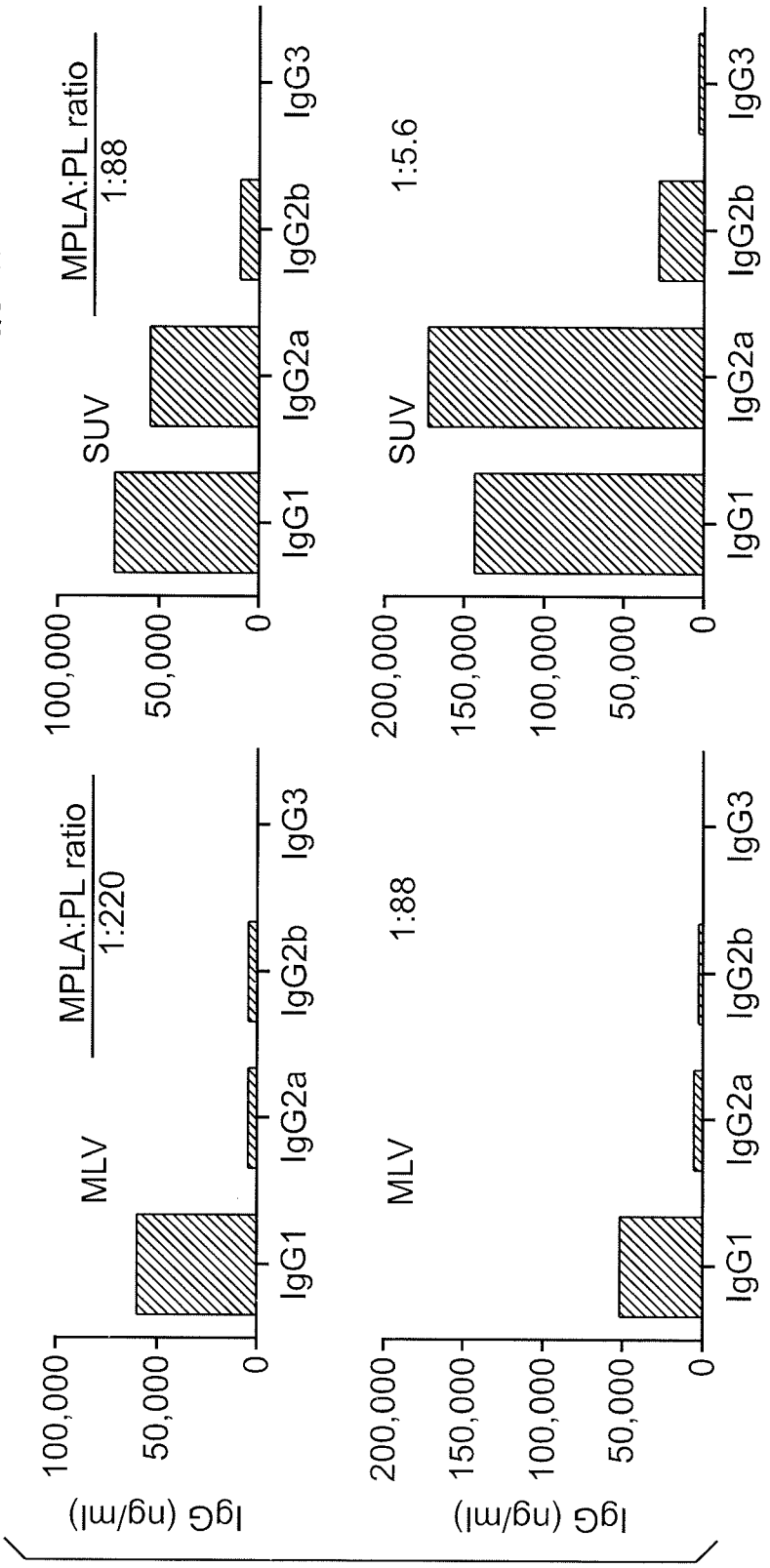
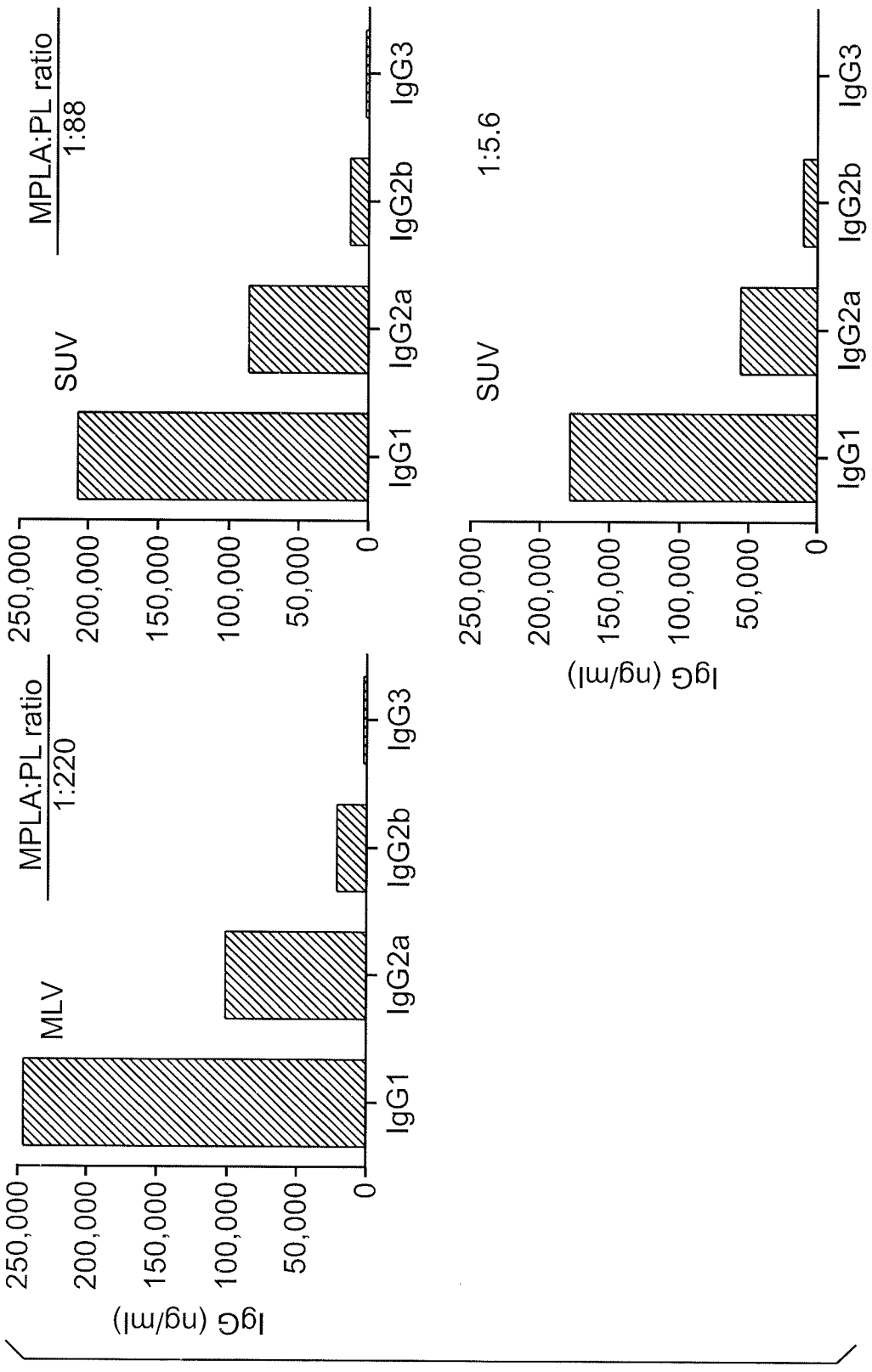

-QS-21
MPLA:PL ratio
1:220
MLV
SUV
IgG (ng/ml)
100,000
50,000
0
IgG1
IgG2a
IgG2b
IgG3
-QS-21
MPLA:PL ratio
1:88
MLV
SUV
IgG (ng/ml)
200,000
150,000
100,000
50,000
0
IgG1
IgG2a
IgG2b
IgG3
1:88
1:5.6

FIG. 10B


+QS-21
MLV
MPLA:PL ratio
1:220
IgG (ng/ml)
250,000
200,000
150,000
100,000
50,000
0
IgG1
IgG2a
IgG2b
IgG3
+QS-21
SUV
MPLA:PL ratio
1:88
SUV
1:5.6

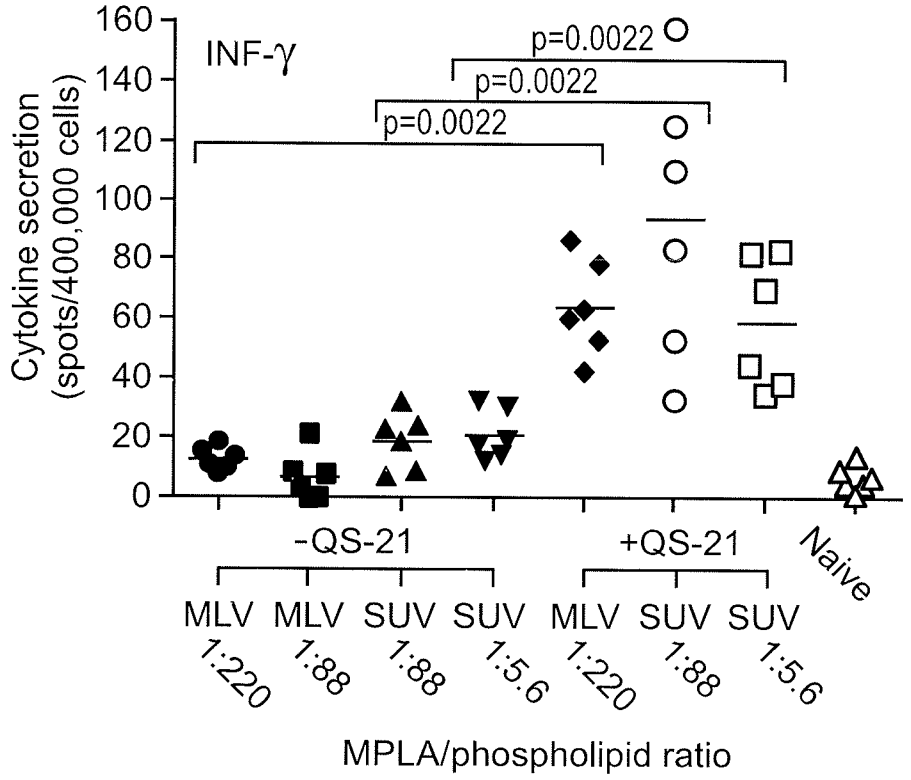


FIG. 11A

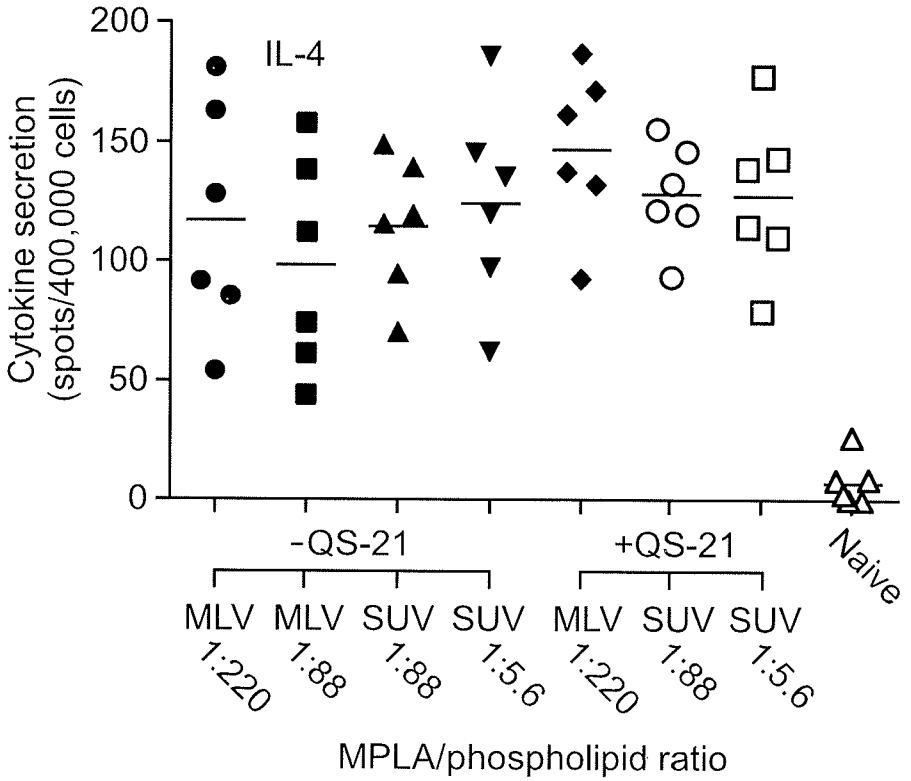


FIG. 11B

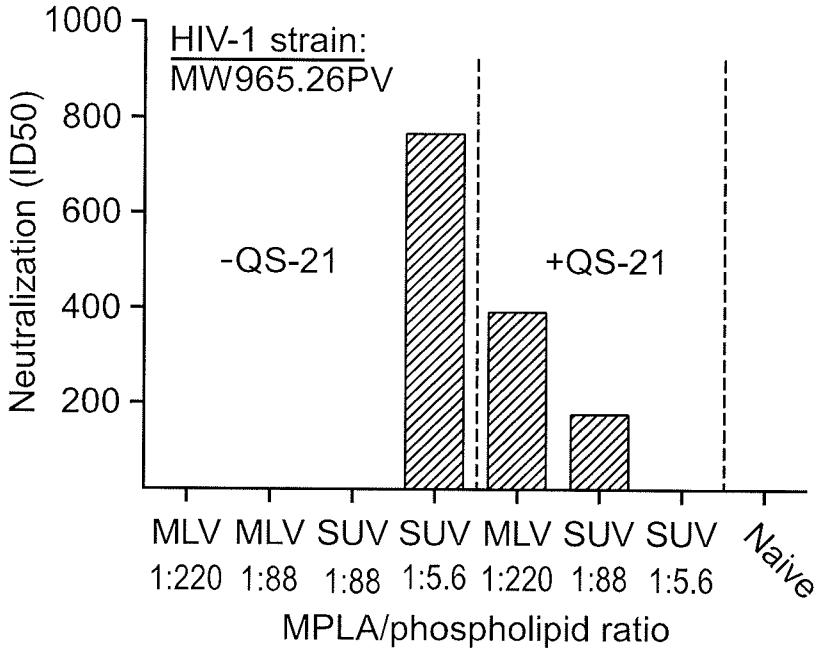


FIG. 12A

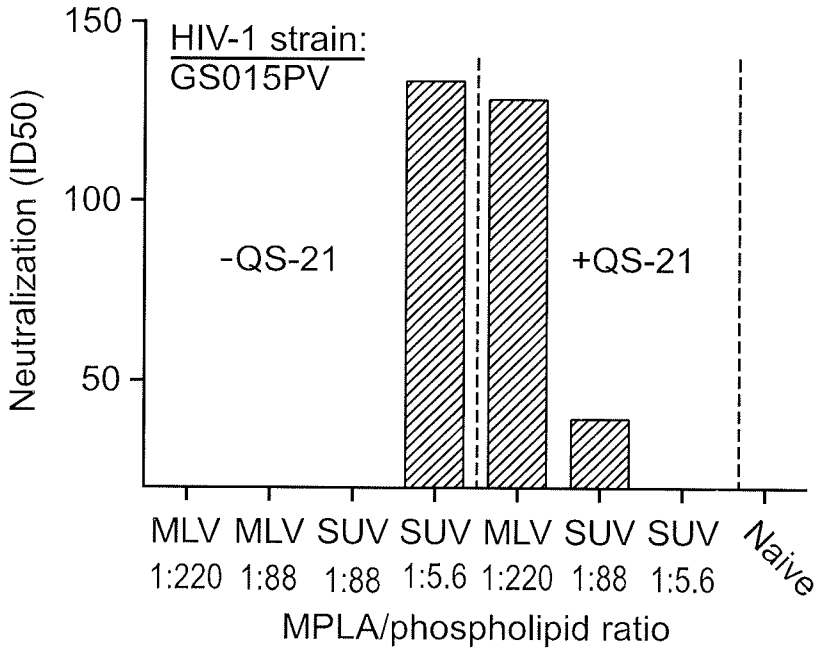


FIG. 12B