Fig. 1

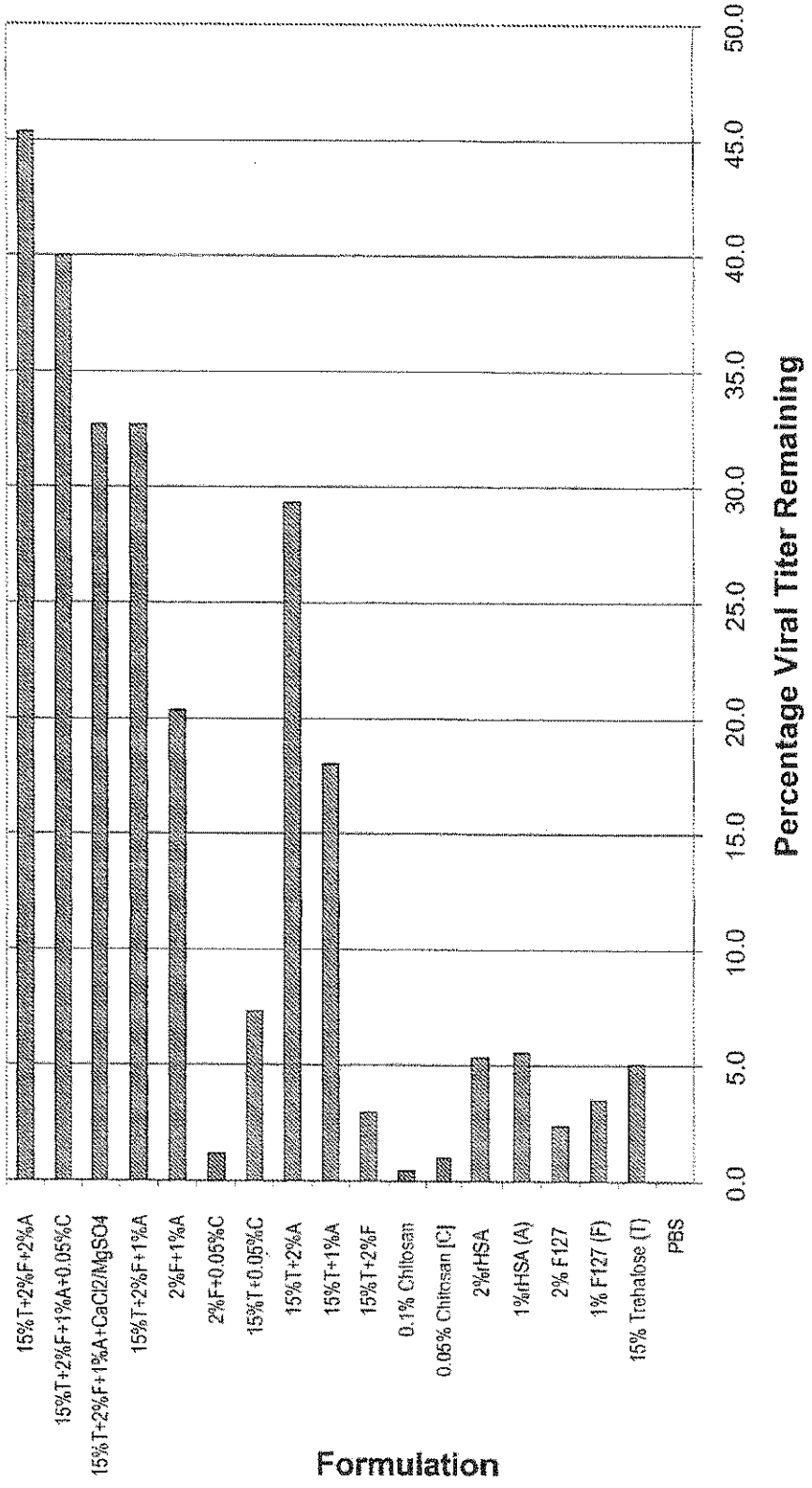

15%T+2%F+2%A
15%T+2%F+1%A+0.05%C
15%T+2%F+1%A+CaCl2/MgSO4
15%T+2%F+1%A
2%F+1%A
2%F+0.05%C
15%T+0.05%C
15%T+2%A
15%T+1%A
15%T+2%F
0.1% Chitosan
0.05% Chitosan [C]
2%rHSA
1%rHSA (A)
2% F127
1% F127 (F)
15% Trehalose (T)
PBS
Formulation
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
Percentage Viral Titer Remaining

Fig. 2

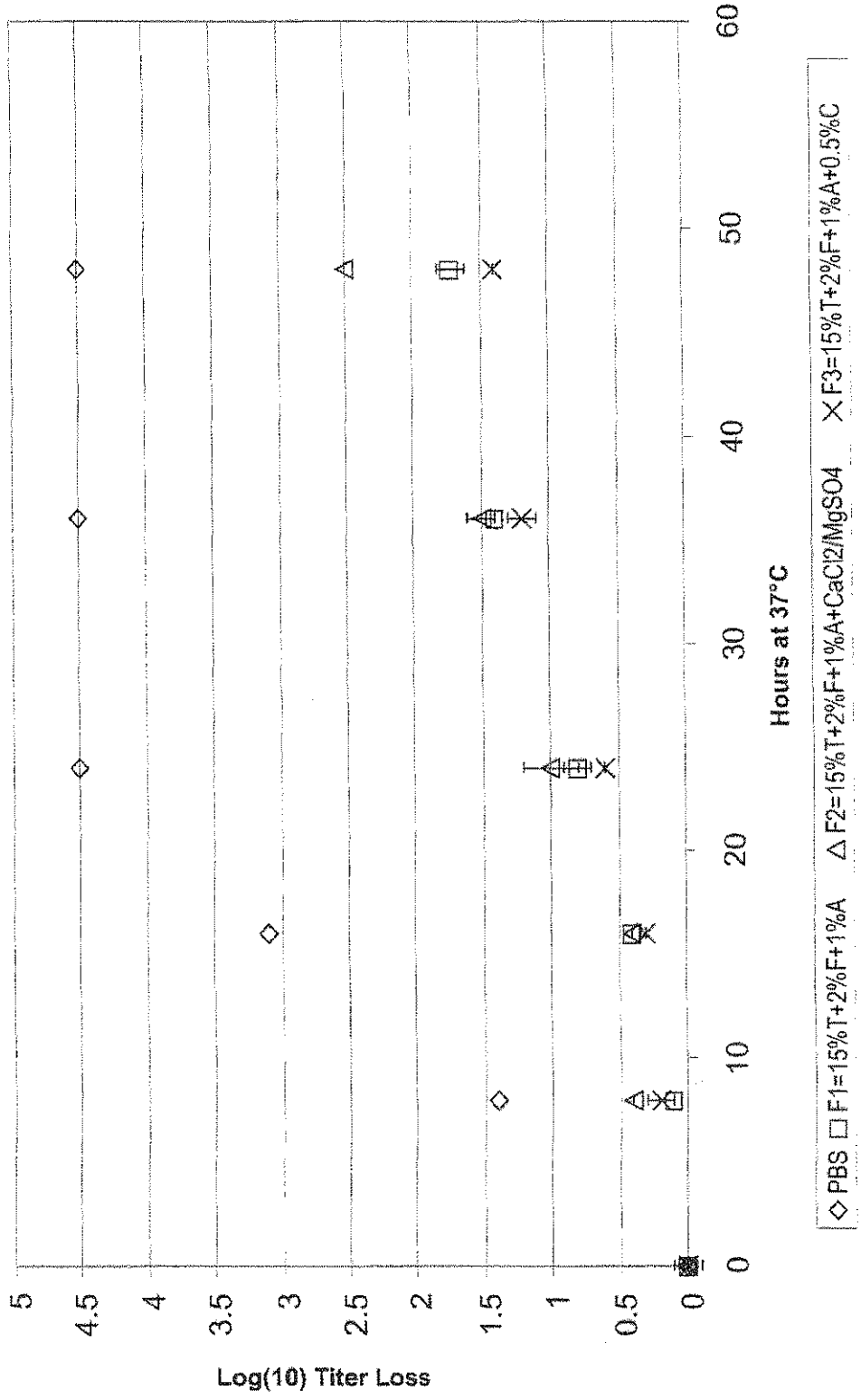
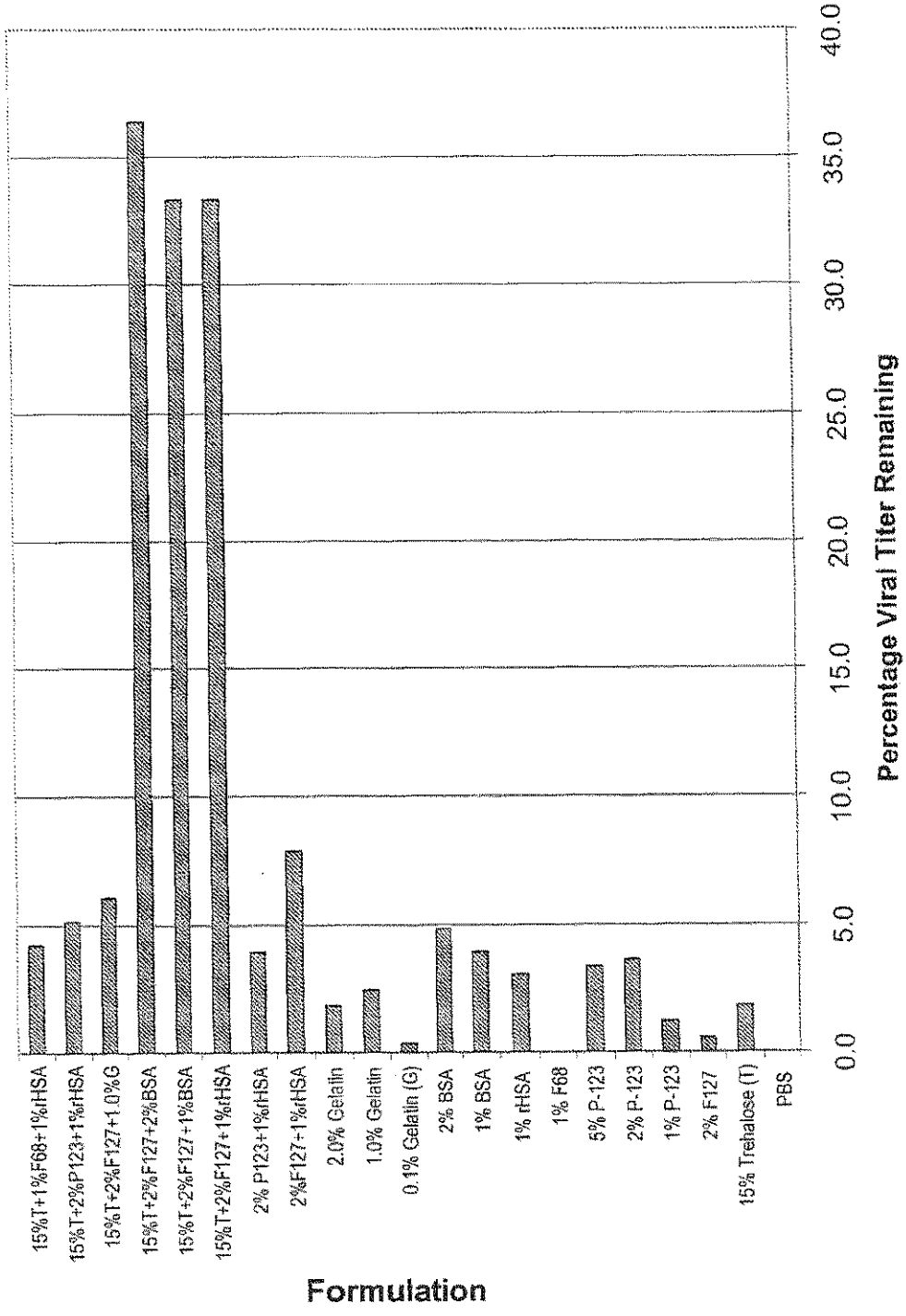

Log(10) Titer Loss
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0
10
20
30
40
50
60
Hours at 37°C
◇ PBS □ F1=15%T+2%F+1%A △ F2=15%T+2%F+1%A+CaCl2/MgSO4 × F3=15%T+2%F+1%A+0.5%C

Fig.3


15%T+1%F68+1%rHSA
15%T+2%P123+1%rHSA
15%T+2%F127+1.0%G
15%T+2%F127+2%BSA
15%T+2%F127+1%BSA
15%T+2%F127+1%rHSA
2% P123+1%rHSA
2%F127+1%rHSA
2.0% Gelatin
1.0% Gelatin
0.1% Gelatin (G)
2% BSA
1% BSA
1% rHSA
1% F68
5% P-123
2% P-123
1% P-123
2% F127
15% Trehalose (T)
PBS
Formulation
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
Percentage Viral Titer Remaining

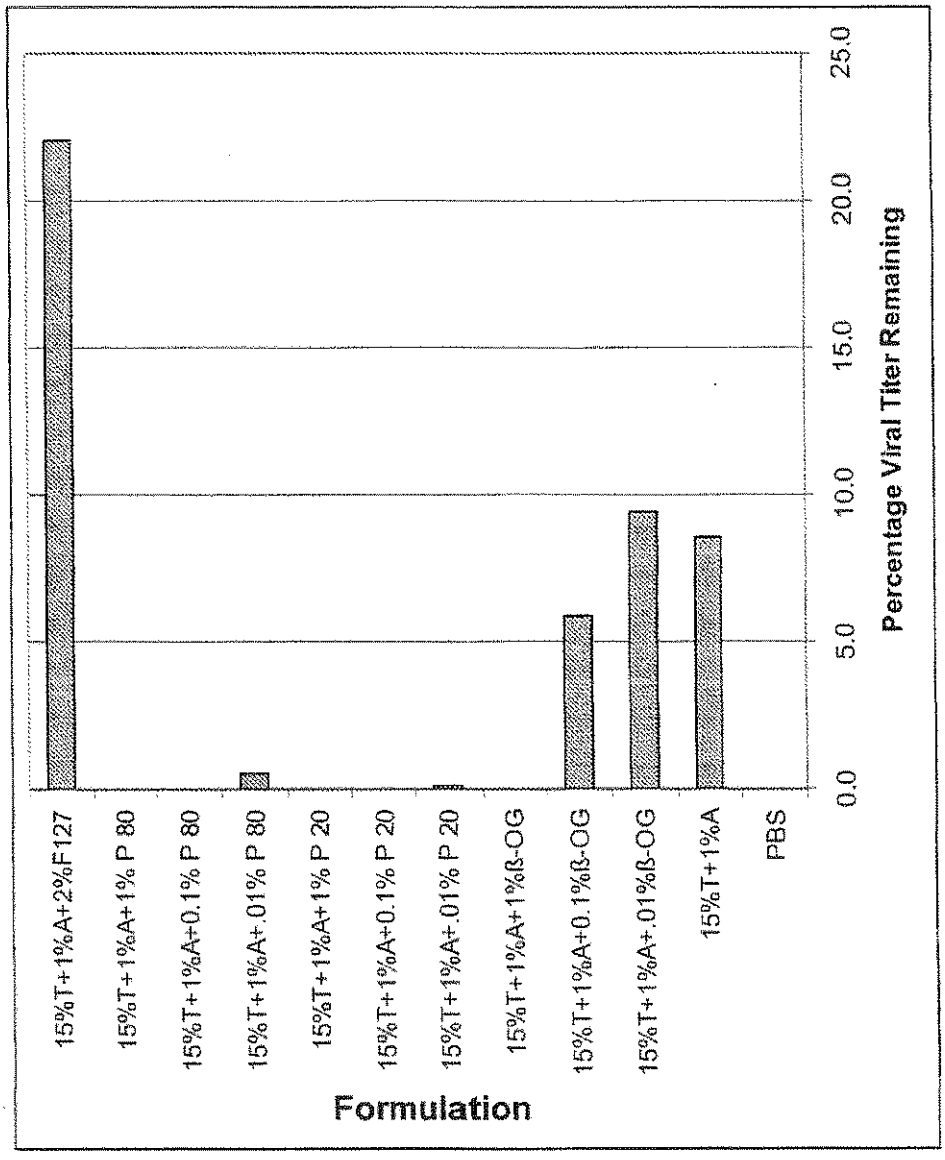

15%T+1%A+2%F127
15%T+1%A+1% P 80
15%T+1%A+0.1% P 80
15%T+1%A+.01% P 80
15%T+1%A+1% P 20
15%T+1%A+0.1% P 20
15%T+1%A+.01% P 20
15%T+1%A+1%ß-OG
15%T+1%A+0.1%ß-OG
15%T+1%A+.01%ß-OG
15%T+1%A
PBS
Formulation
0.0
5.0
10.0
15.0
20.0
25.0
Percentage Viral Titer Remaining

Fig. 4

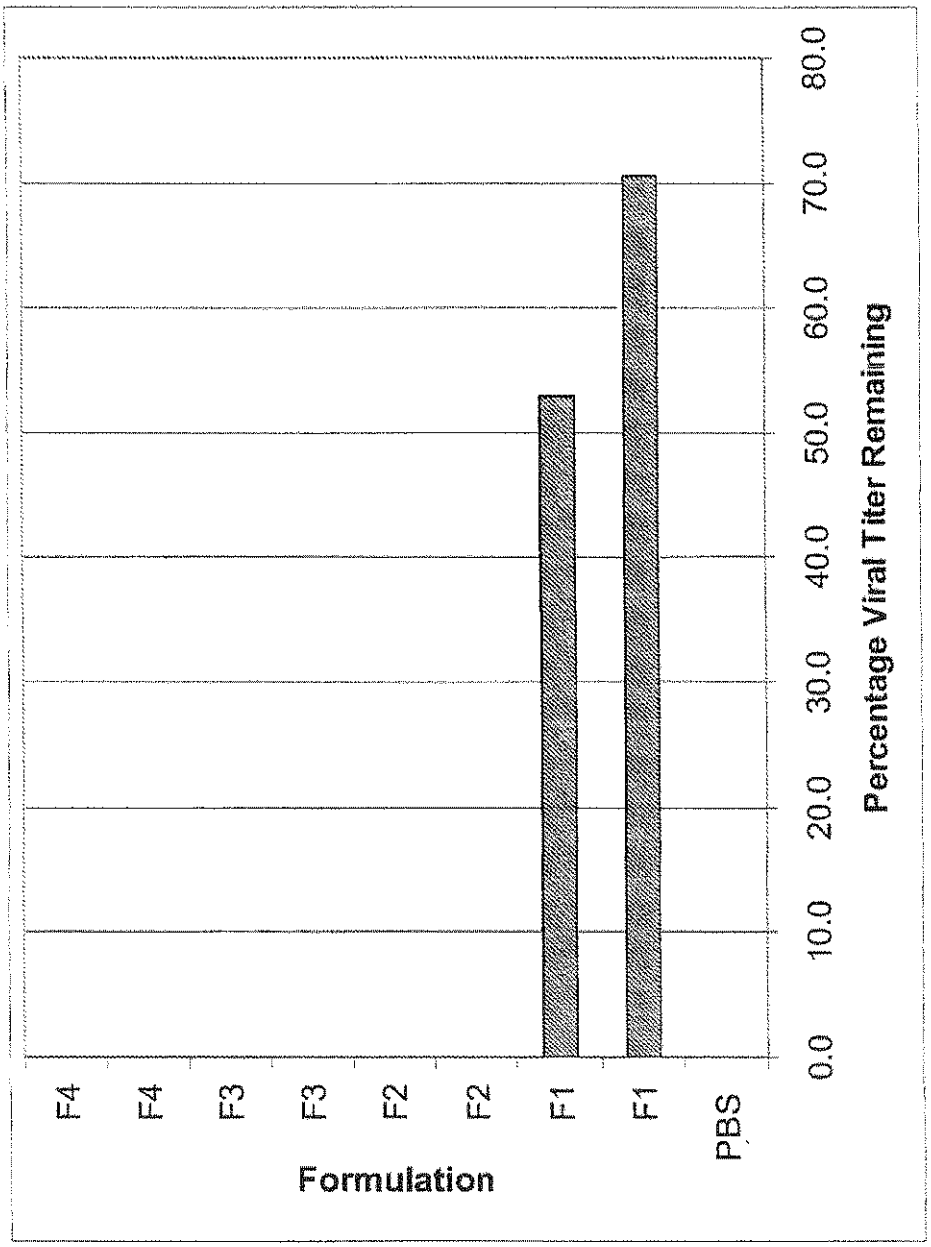
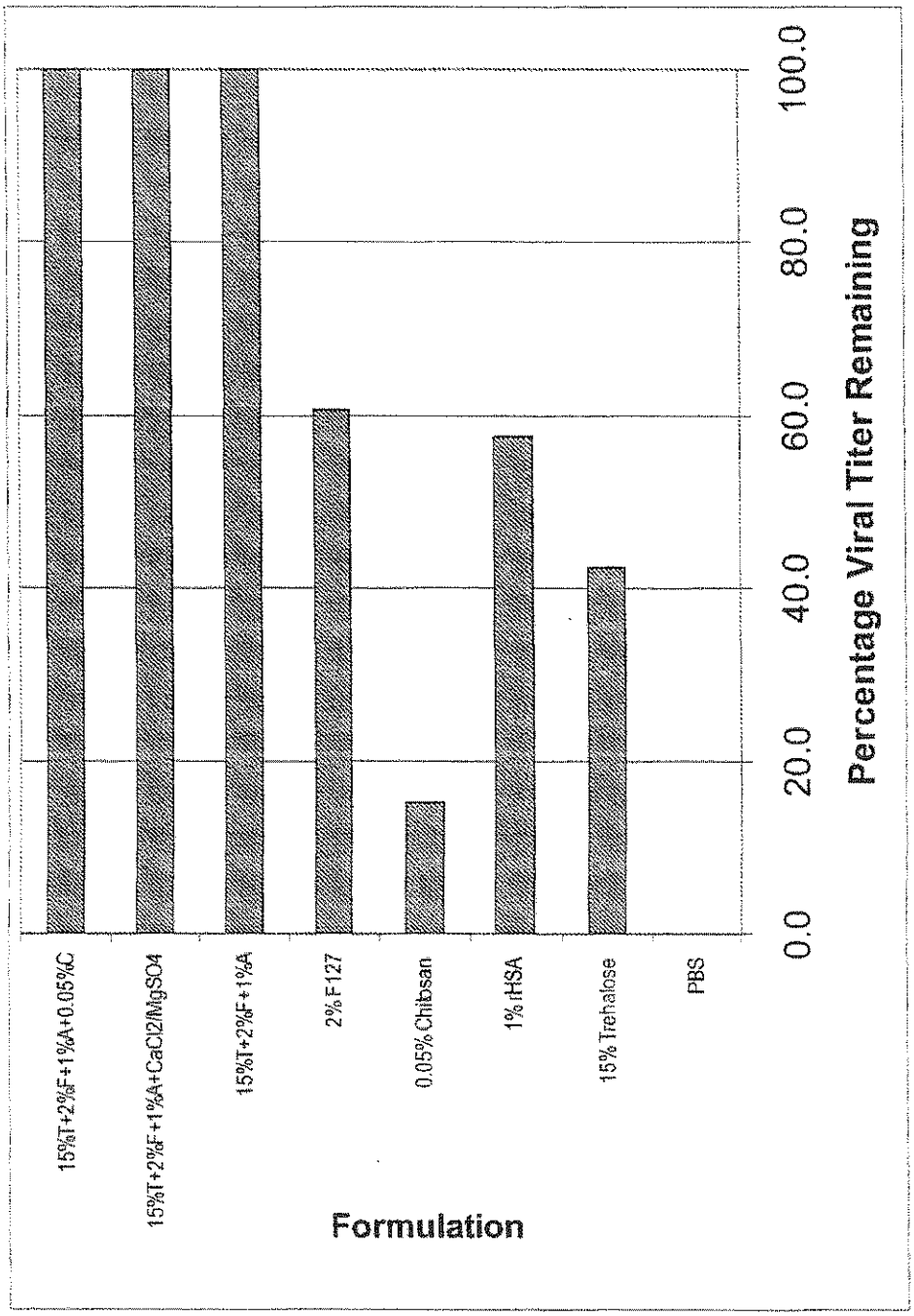

0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
Percentage Viral Titer Remaining
F4
F4
F3
F3
F2
F2
F1
F1
PBS
Formulation

Fig. 5

Fig. 6


0.0
20.0
40.0
60.0
80.0
100.0
Percentage Viral Titer Remaining
15%T+2%F+1%A+0.05%C
15%T+2%F+1%A+CaCl2/MgSO4
15%T+2%F+1%A
2% F127
0.05% Chitosan
1% rHSA
15% Trehalose
PBS
Formulation

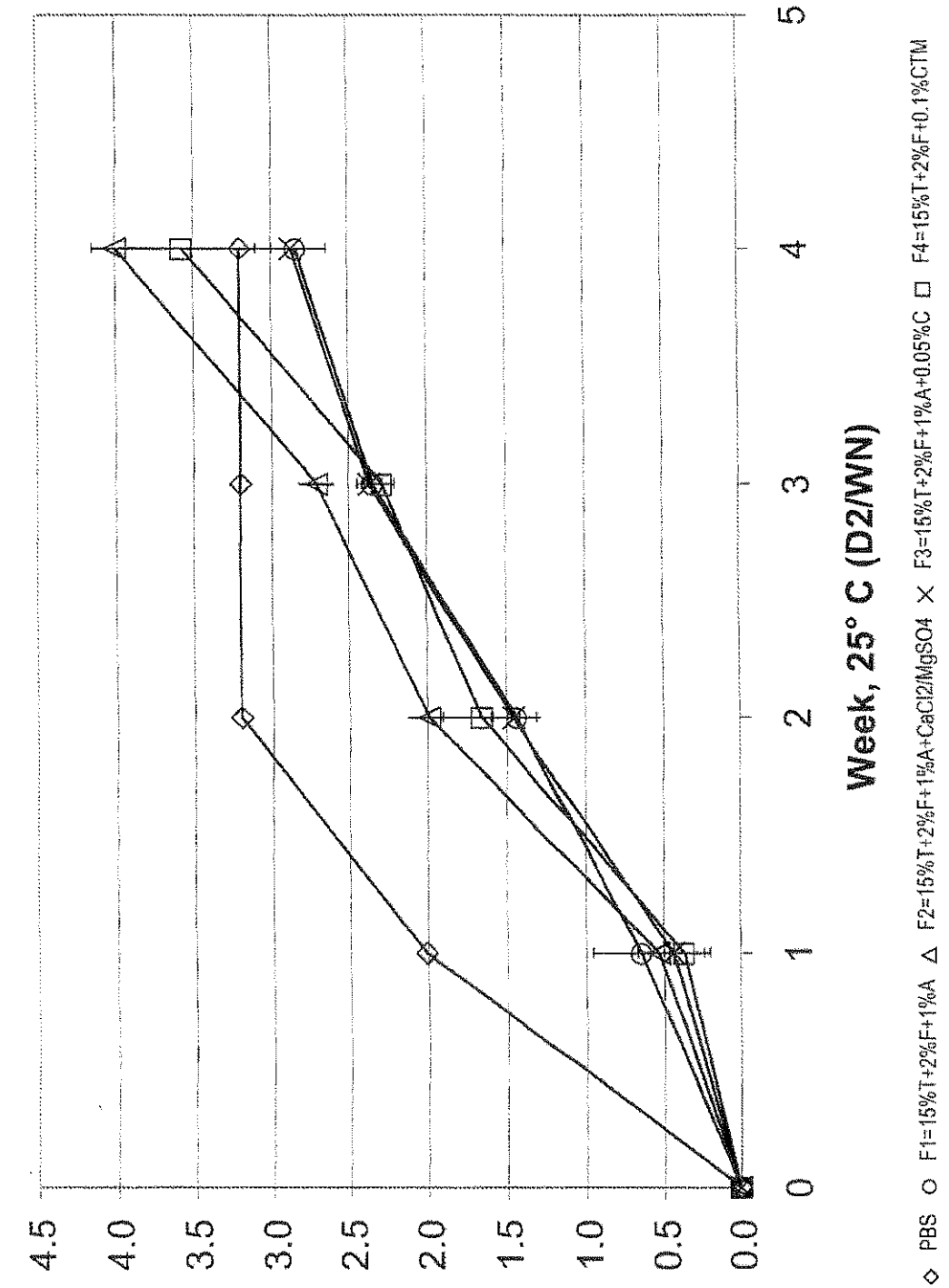
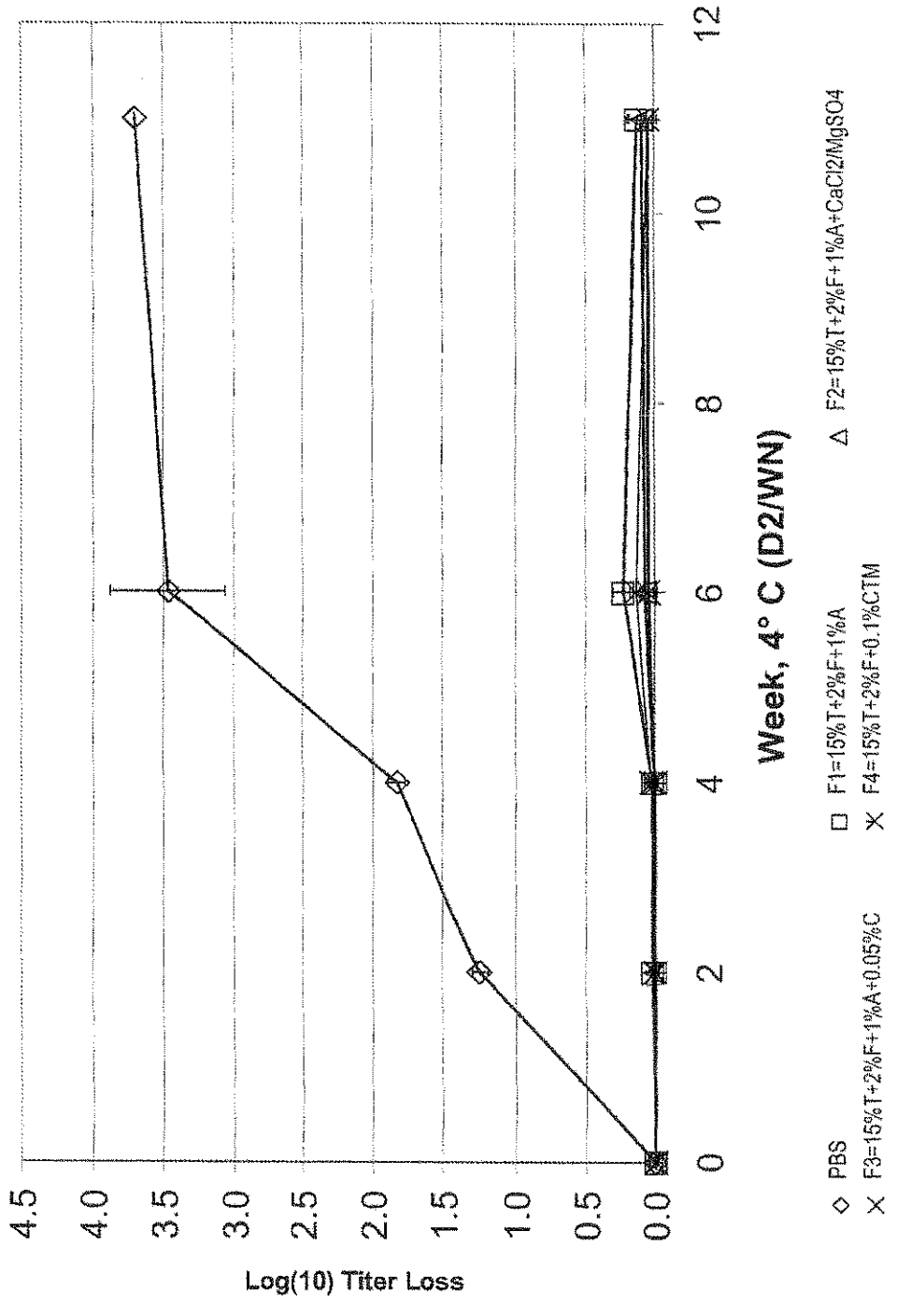

4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Log(10) Titer Loss
0
1
2
3
4
5
Week, 25° C (D2/WN)
◇ PBS ○ F1=15%T+2%F+1%A △ F2=15%T+2%F+1%A+CaCl2/MgSO4 × F3=15%T+2%F+1%A+0.05%C □ F4=15%T+2%F+0.1%CTM

Fig. 7

Fig. 8


Log(10) Titer Loss
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Week, 4° C (D2/WN)
◇ PBS
□ F1=15%T+2%F+1%A
△ F2=15%T+2%F+1%A+CaCl2/MgSO4
× F3=15%T+2%F+1%A+0.05%C
× F4=15%T+2%F+0.1%CTM

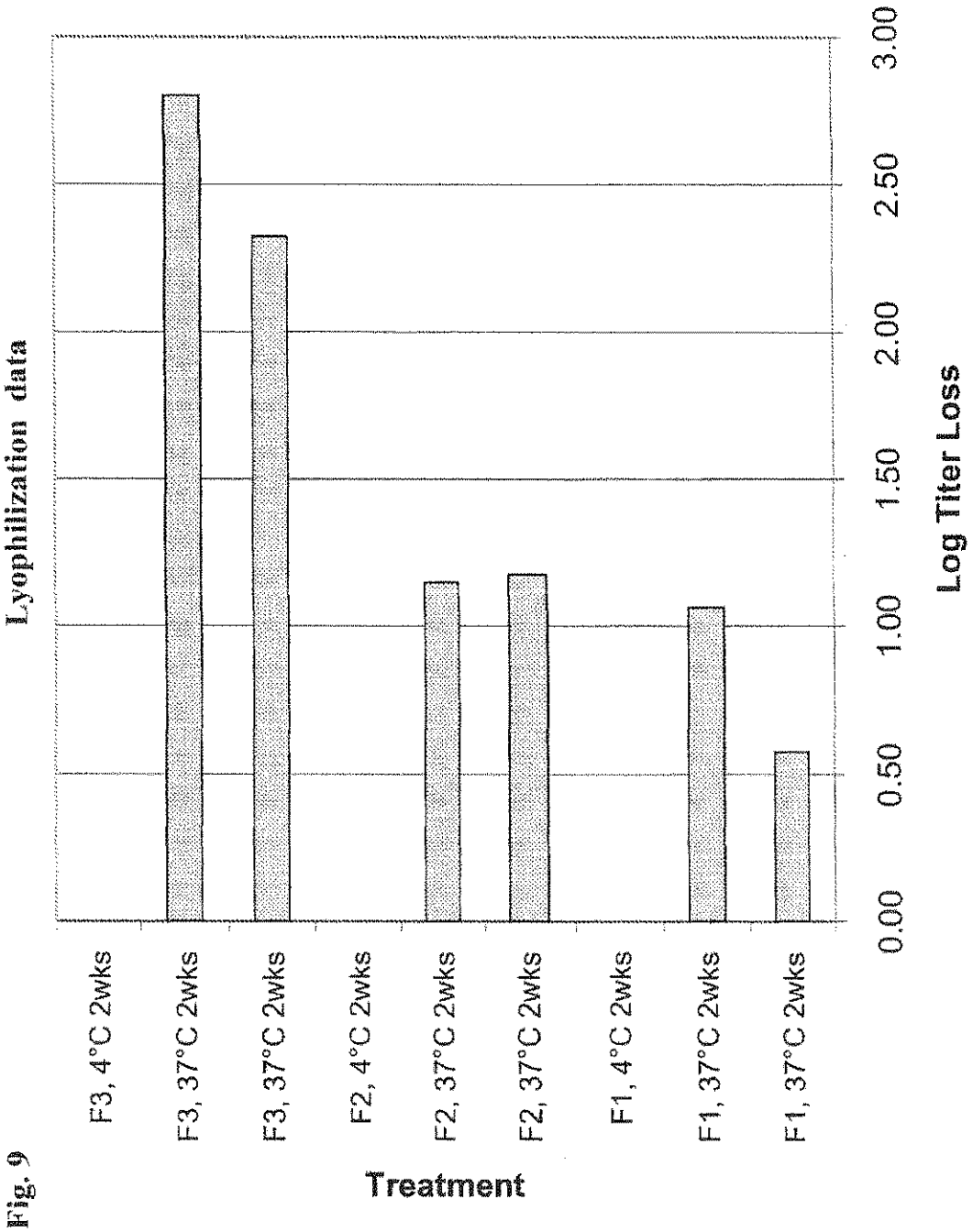

Lyophilization data
F3, 4°C 2wks
F3, 37°C 2wks
F3, 37°C 2wks
F2, 4°C 2wks
F2, 37°C 2wks
F2, 37°C 2wks
F1, 4°C 2wks
F1, 37°C 2wks
F1, 37°C 2wks
Treatment
0.00
0.50
1.00
1.50
2.00
2.50
3.00
Log Titer Loss

Fig. 9