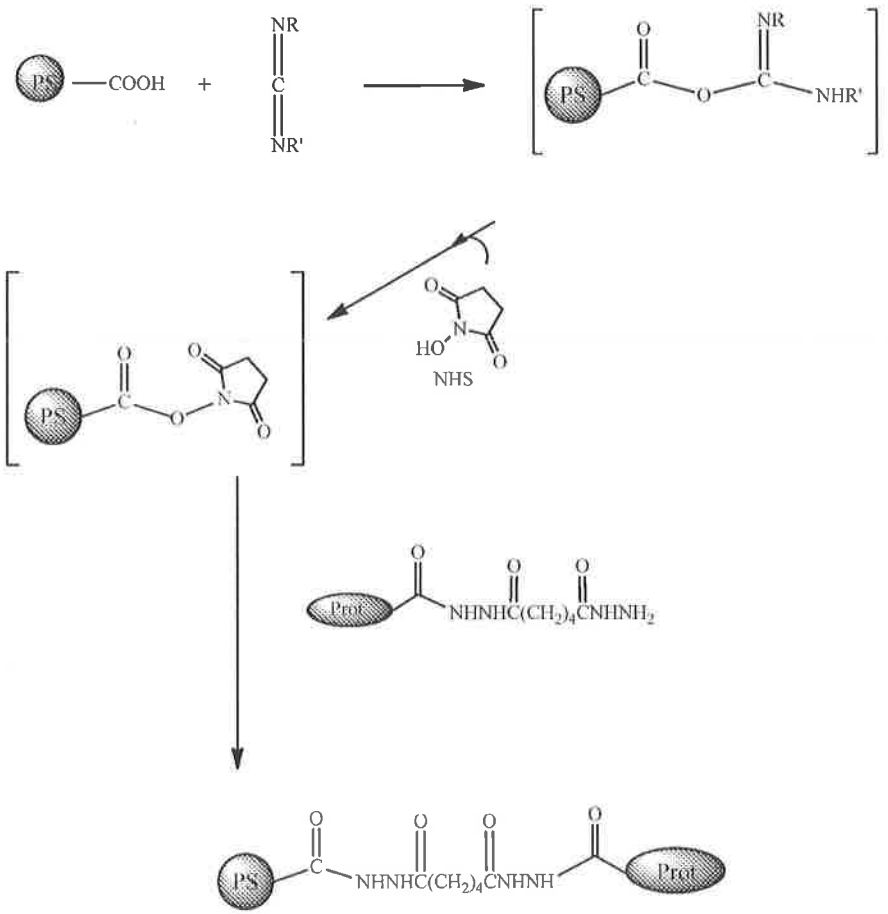

PS
COOH
+
NR
C
NR'
O
NR
C
O
C
NHR'
HO
N
O
O
NHS
PS
O
C
O
N
O
O
Prot
O
NHNHC(CH2)4CNHNH2
PS
C
NHNHC(CH2)4CNHNH
Prot

Figure 1

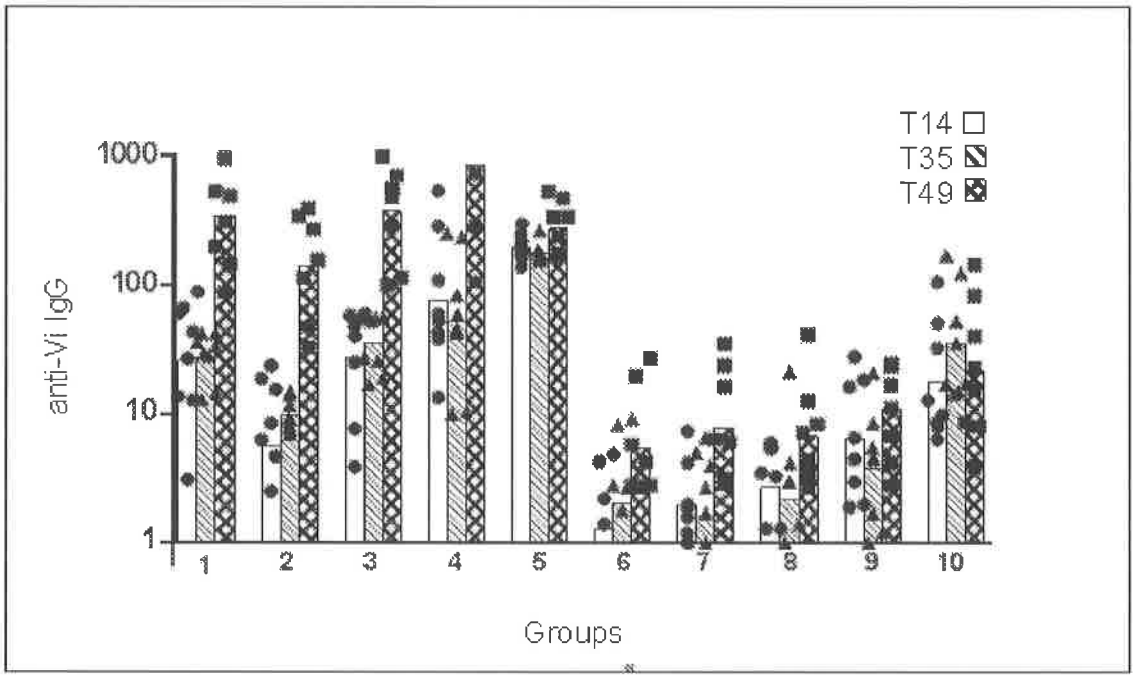
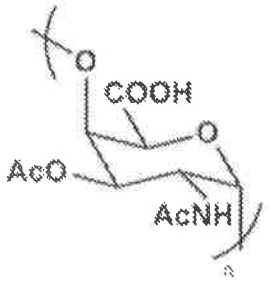


Figure 2



(Vi monomeric repeating unit; Ac = acetyl group)

Figure 3

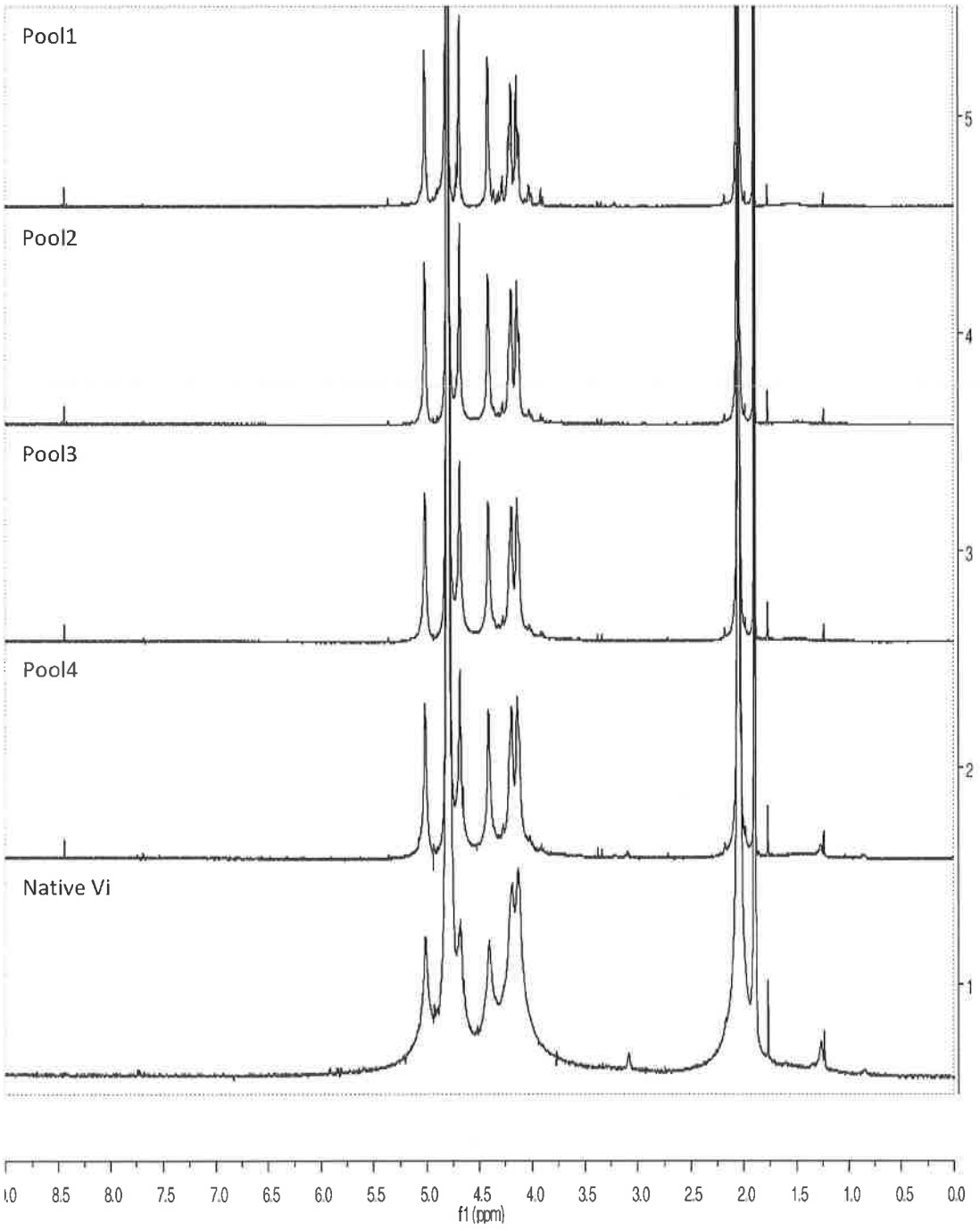

Pool1
Pool2
Pool3
Pool4
Native Vi
5
4
3
2
1
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
f1 (ppm)

Figure 4

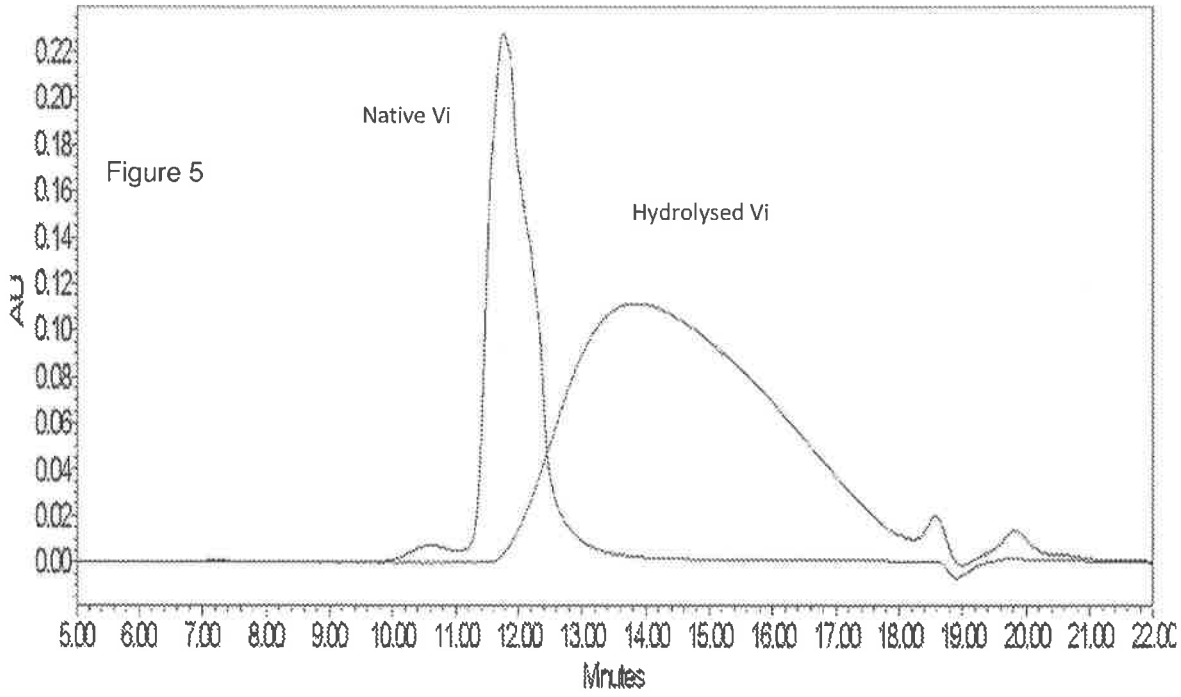


Figure 5

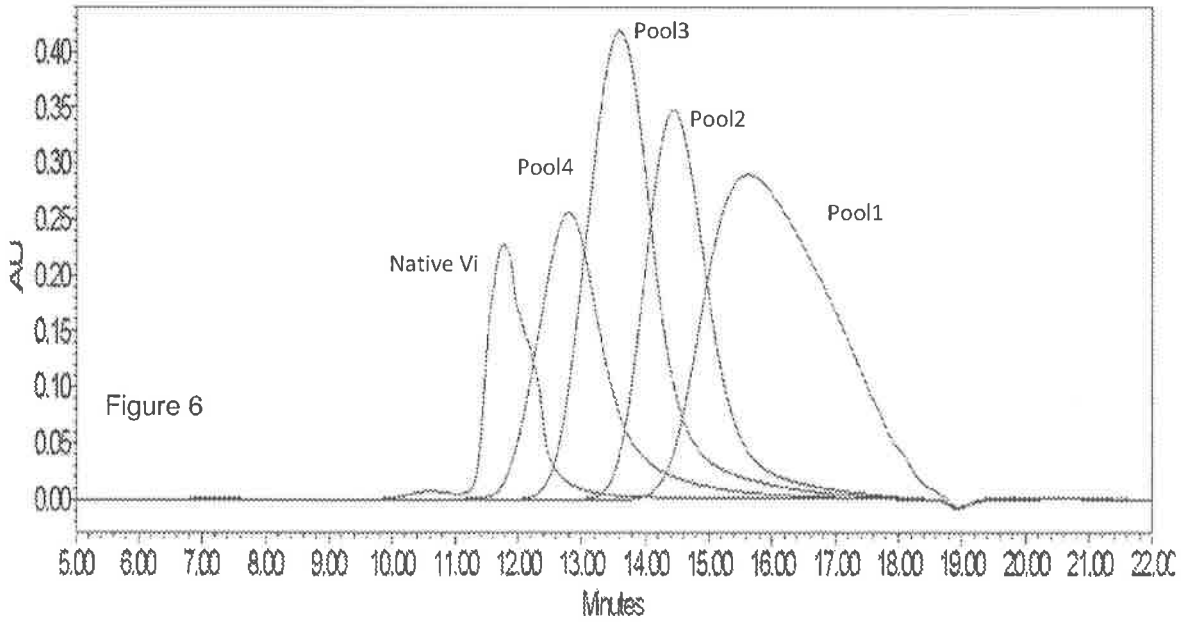


Figure 6

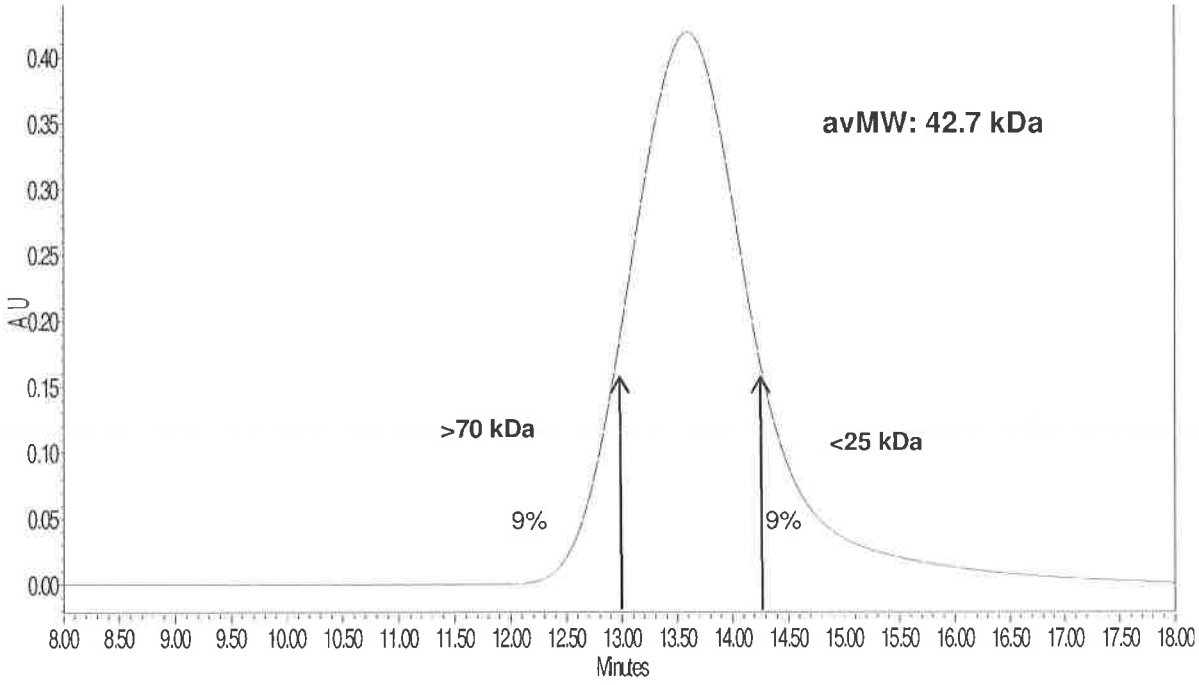

avMW: 42.7 kDa
>70 kDa
<25 kDa
9%
9%
AU
Minutes
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50 17.00 17.50 18.00

Figure 7

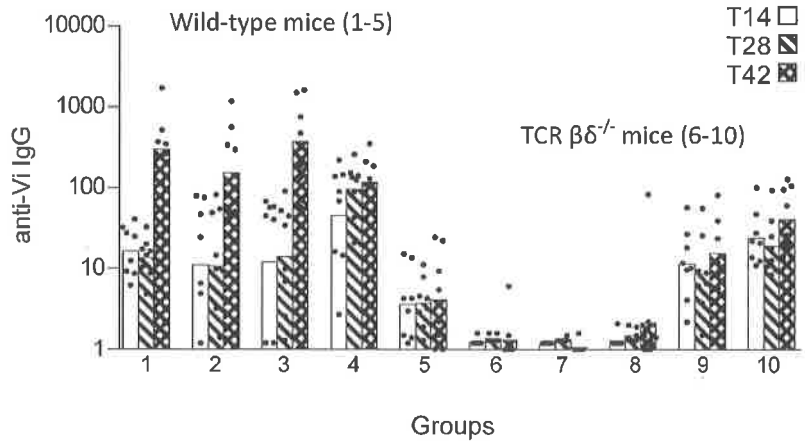

Wild-type mice (1-5)
T14
T28
T42
TCR βδ-/- mice (6-10)
anti-Vi IgG
10000
1000
100
10
1
1
2
3
4
5
6
7
8
9
10
Groups

Figure 8

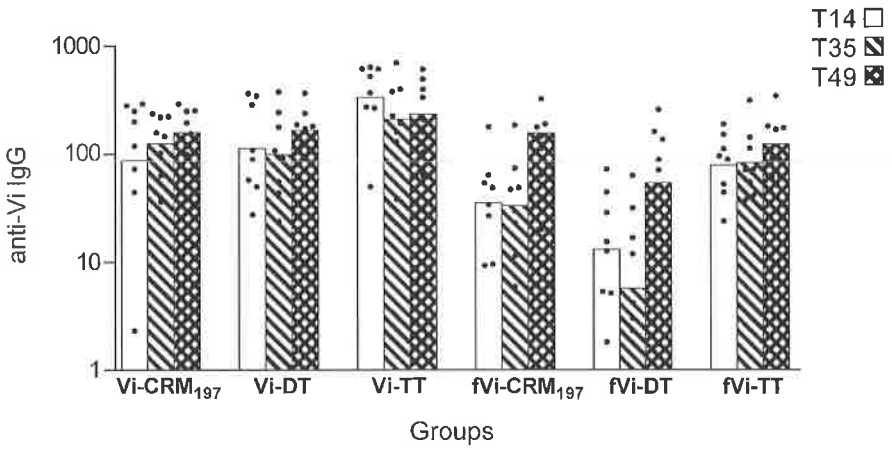

T14
T35
T49
1000
100
10
1
anti-Vi IgG
Vi-CRM197
Vi-DT
Vi-TT
fVi-CRM197
fVi-DT
fVi-TT
Groups

Figure 9