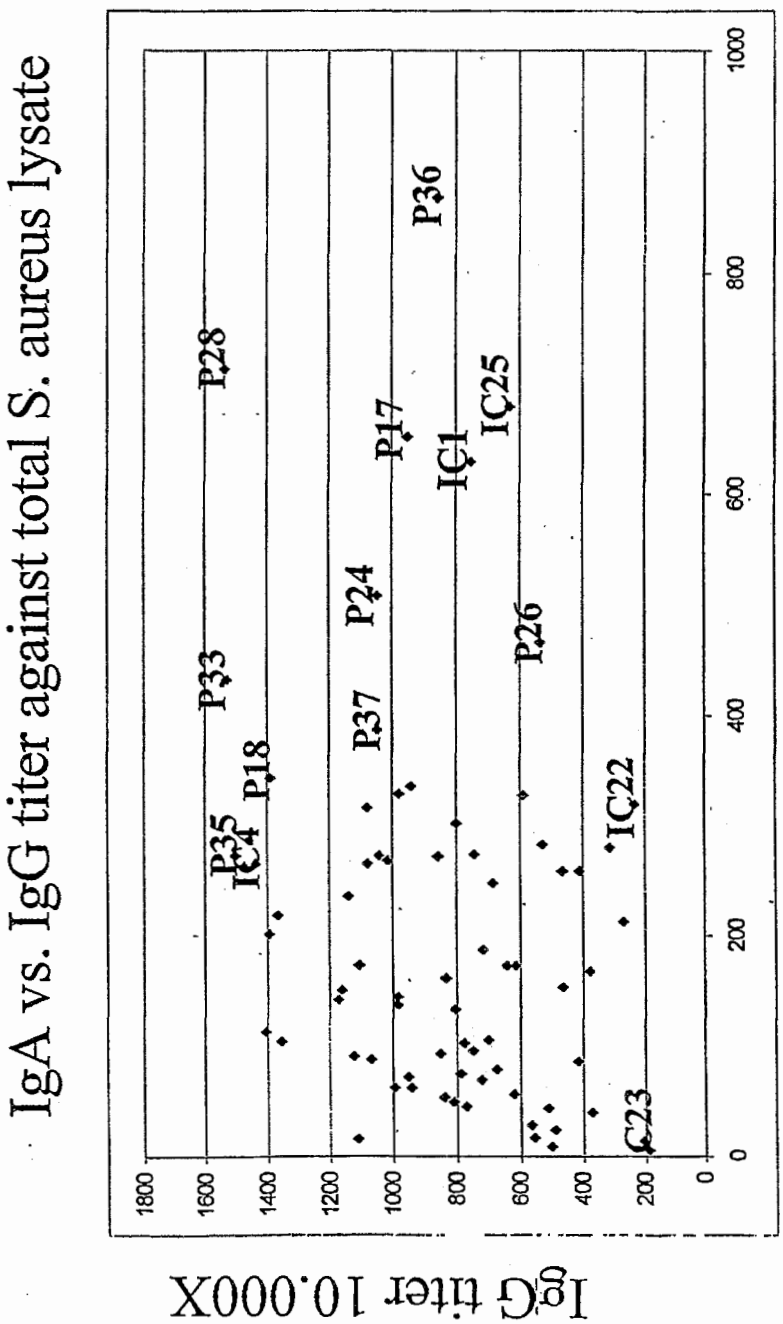

IgA vs. IgG titer against total S. aureus lysate
IgG titer 10.000X
IgA titer 10.000X
P28
P33
P35
IC4
P18
P37
P24
P17
IC1
IC25
P36
P26
IC22
C23
0
200
400
600
800
1000
1200
1400
1600
1800

Figure 1

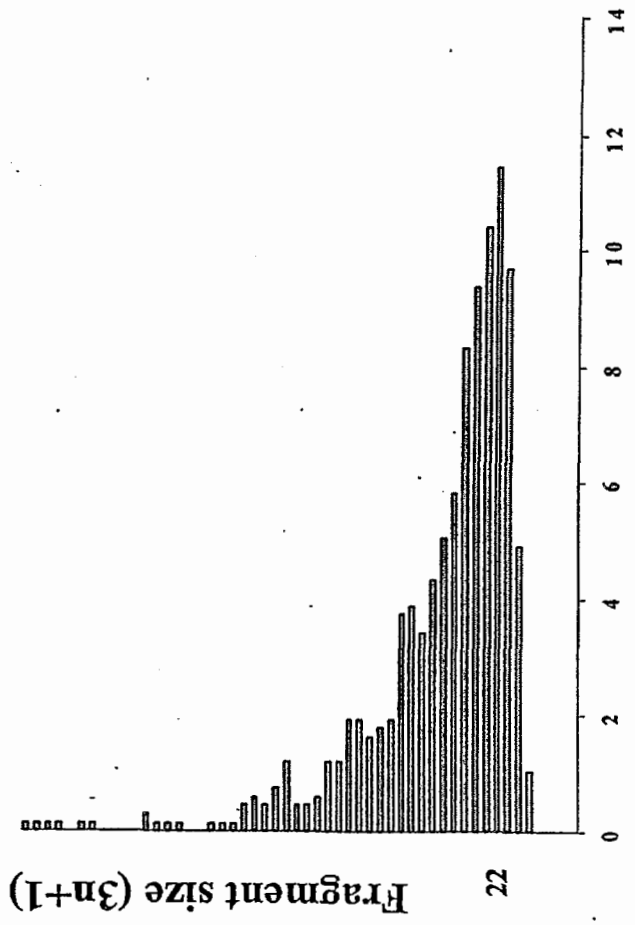


Figure 2

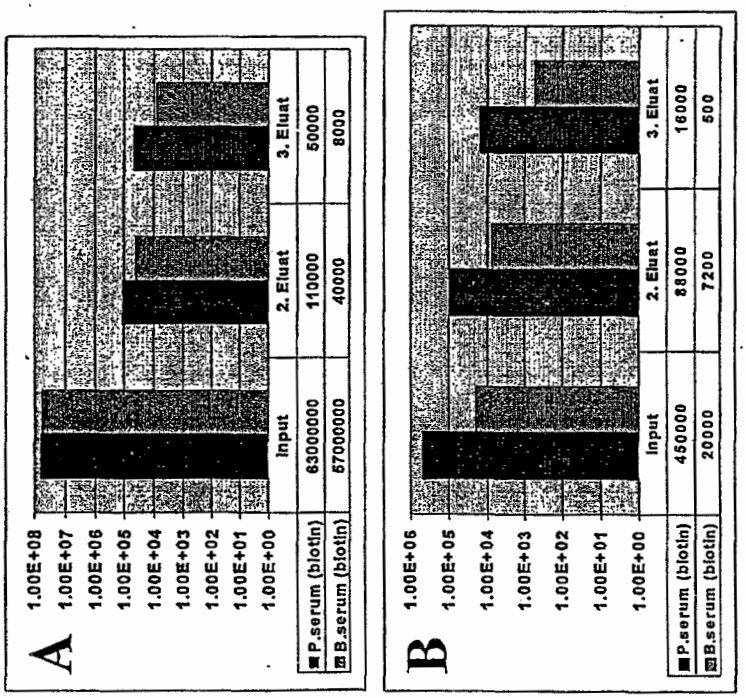

A
1.00E+08
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
Input
2. Eluat
3. Eluat
P.serum (biotin)
63000000
110000
50000
B.serum (biotin)
57000000
40000
8000
B
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
Input
2. Eluat
3. Eluat
P.serum (biotin)
450000
88000
16000
B.serum (biotin)
20000
7200
500

Figure 3

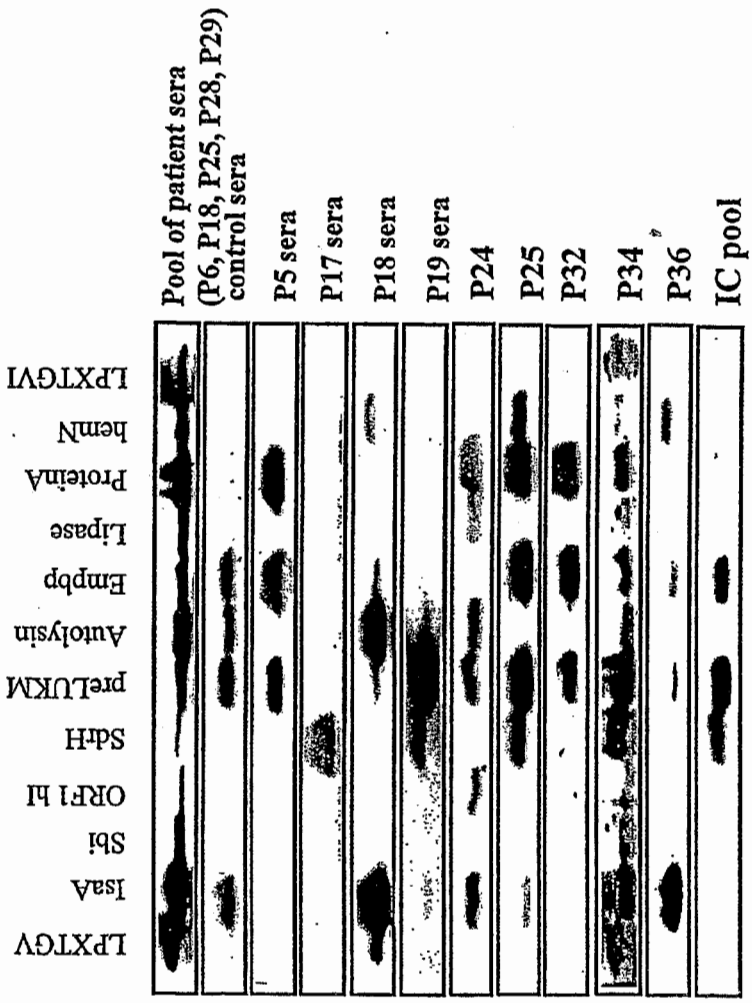

Pool of patient sera (P6, P18, P25, P28, P29) control sera
P5 sera
P17 sera
P18 sera
P19 sera
P24
P25
P32
P34
P36
IC pool
LPXTGV
IsaA
SbiI
ORF1 bl
SdrH
preLUKM
Autolysin
Empbp
Lipase
ProteinA
hemN
LPXTGVI

Figure 4

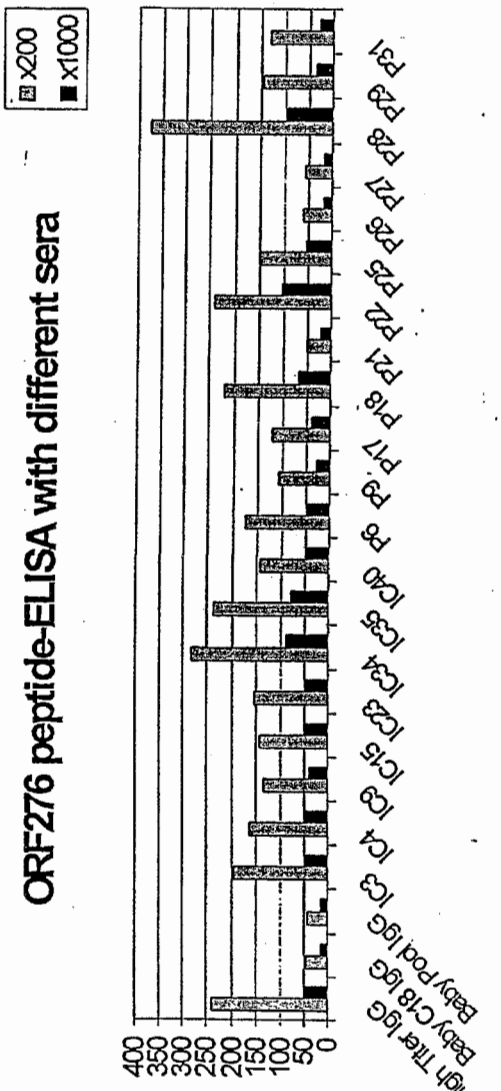

ORF276 peptide-ELISA with different sera
x200
x1000
400
350
300
250
200
150
100
50
0
High Titer IgG
Baby C18 IgG
Baby Pool IgG
IC3
IC4
IC9
IC15
IC23
IC24
IC35
IC40
P6
P9
P17
P18
P21
P22
P25
P26
P27
P28
P29
P31

Figure 5

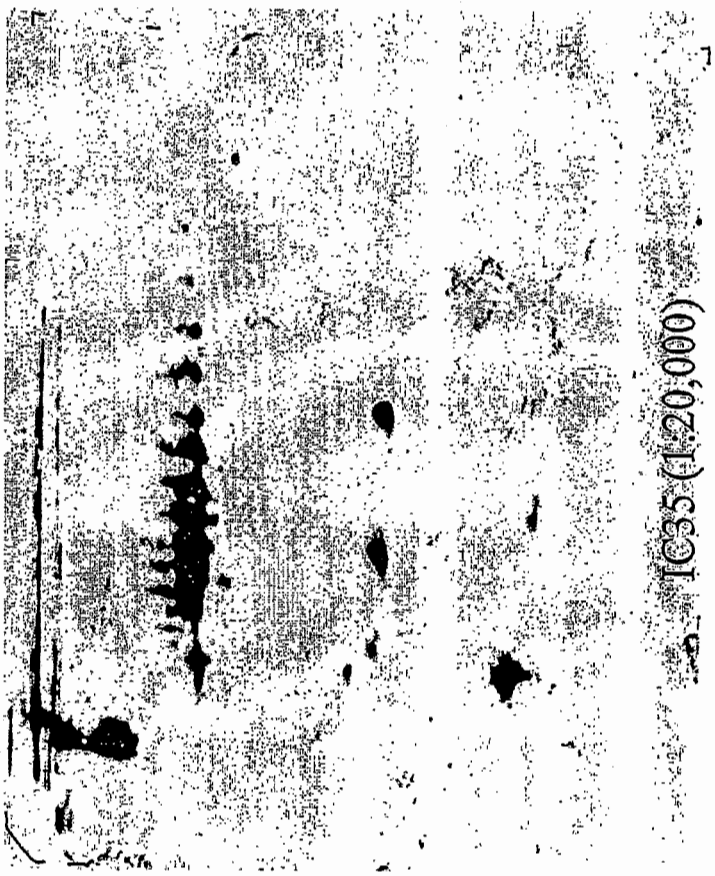


Figure 6

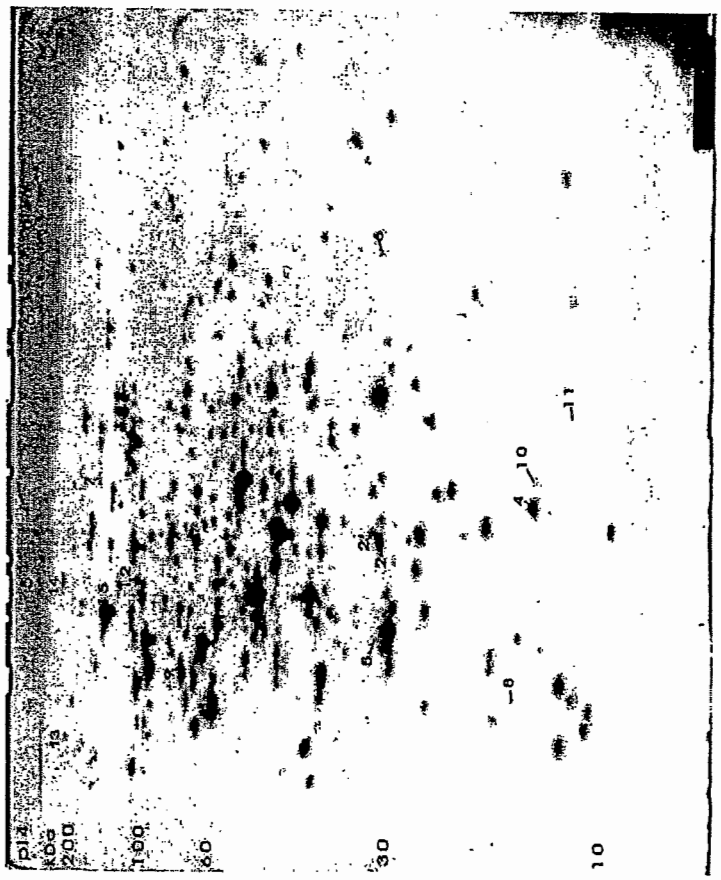


Figure 7

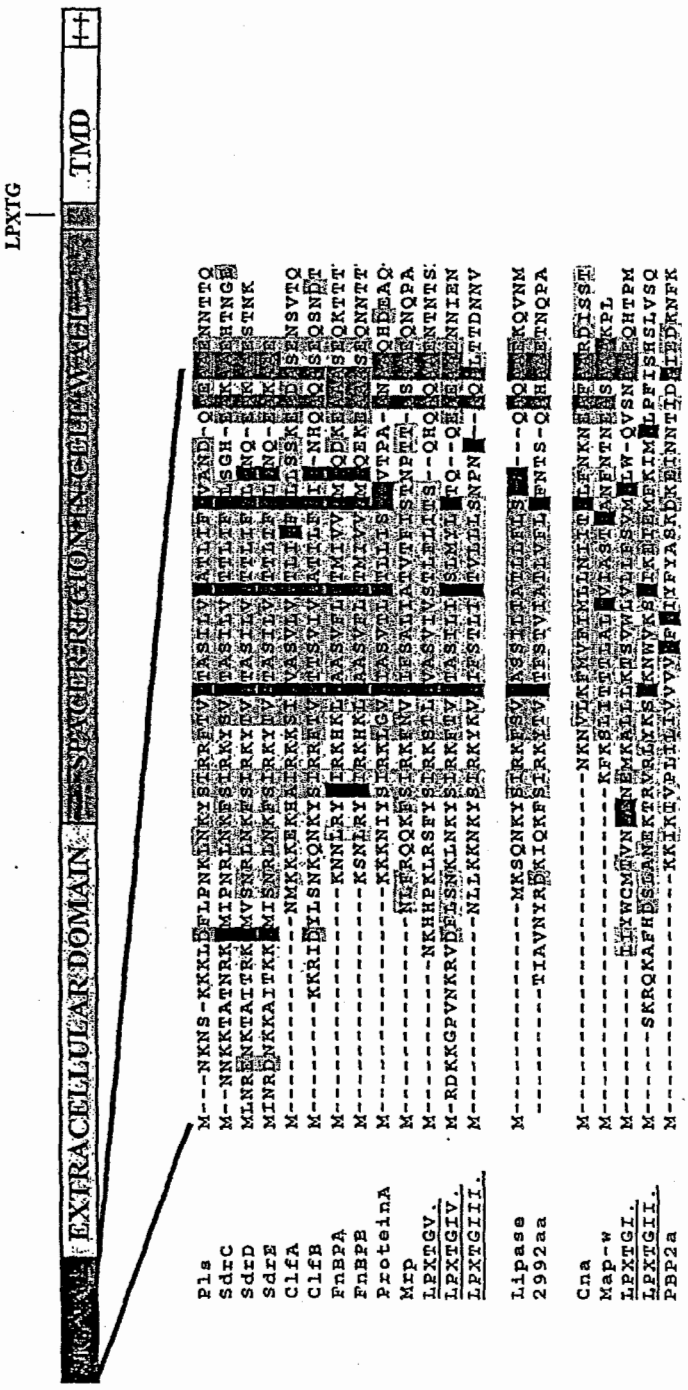

LPXTG
EXTRACELLULAR DOMAIN
TMD
Pls
SdrC
SdrD
SdrE
ClfA
ClfB
FnBPA
FnBPB
Protein A
Mrp
LPXTGV
LPXTGIV
LPXTGIII
Lipase
2992aa
Cna
Map-w
LPXTGI
LPXTGII
PBP2a

Figure 8A

Constitutive Cell Wall Proteins of S. aureus with LPXTG motif

	Known proteins	Predicted Mw/pI	LPXTG hydrophobic membrane domain basic C-terminus
1	Mrp protein	255/4.6	AKTLPDTGMSHNDDLPVAELALGAGMAFLIRRFTKKDQQTEE
2	Pls (MRSA)	167/4.1	NKELPDTGNDAQNNGTLFGSLFAALGGLFLVGRRRKNKNNEEK
3	SdrD (SD-repeat)	133/4.1	AKALPETGNENSGSNNATLFGGLFAALGSLLLFGRRKKQNK
4	Cna	126/5.6	LKELPKTGMKTITSWITWVFIGILGLYLILRKRFNS
5	SdrE	117/4.1	AKALPETGSENNGSNNATLFGGLFAALGSLLLFGRRKKQNK
6	FnBPA	104/4.5	KSELPETGGEESTNKGMLFGGLFSILGLALLRRNKKNHKA
7	SdrC	94/4.1	AKADPETGSENNNSNNGTLFGGLFAALGSLLSFGRRKKQNK
8	FnBPB	96/4.5	KSELPETGGEESTNNGMLFGGLFSILGLALLRRNKKNHKA
9	ClfA (clumping facto:	89/3.4	KEPLPDTGSEDENTSLIWGLLASIGSLLLFRRKKENKDKK
10	ClfB (clumping facto:	88/3.7	TDALPETGDKSENTNATLFGAMMALLGSLLLFRKRKQDHKEKA
11	Spa (Protein A)	48/5.2	AQALPETGEENPFIGTTVFGGLSLALGAALLAGRRREL

	Predicted based on sequence (TIGR)		
1	Anonymus I.	79/9.3	EKQLPKTGTNKSSSPEAMEVLLAGIGLIATVRRRKAS
2	Anonymus II.	227/4.2	EKRLPDTGDSIKQNGLLGGVMTLLVGLGLMKRKKKKDEND
3	Anonymus III.	200/4.1	EKELPNTGSEGMDLPLKEFALITGAALLARRRTKNEKES
4	Anonymus IV.	122/5.8	RAELPKTGLESTQKGLIFSSIIGIAGLMLLARRRKN
5	Anonymus V.	101/5.0	SKMLPKTGETTSSQSWWGLYALLGMLALFIPKFRKESK

Figure 8B

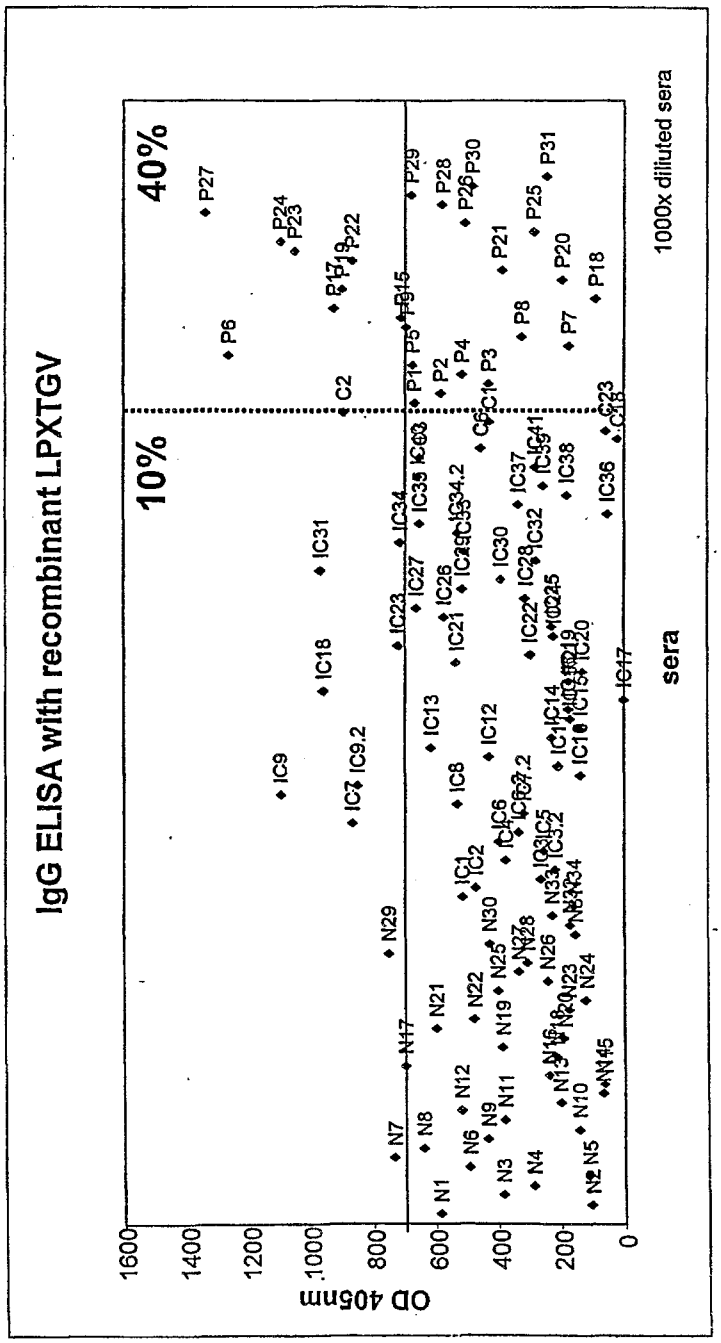

IgG ELISA with recombinant LPXTGV
10%
40%
OD 405nm
1600
1400
1200
1000
800
600
400
200
0
sera
1000x diluted sera

Figure 9

Surface staining of S. aureus (strain 8325-4 spa-) with purified anti-LPXTGV IgGs

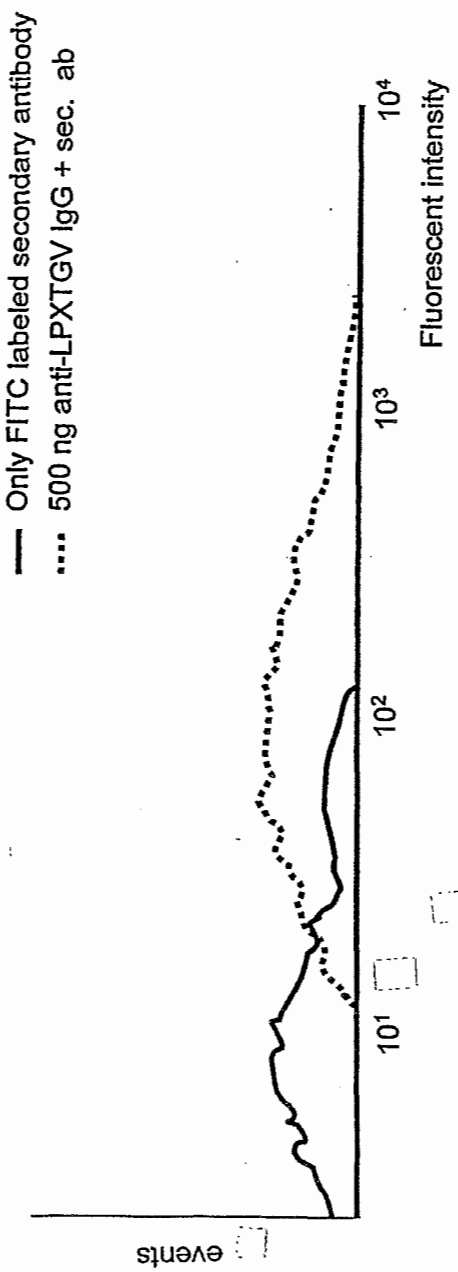


Figure 10