FIGURE 1a

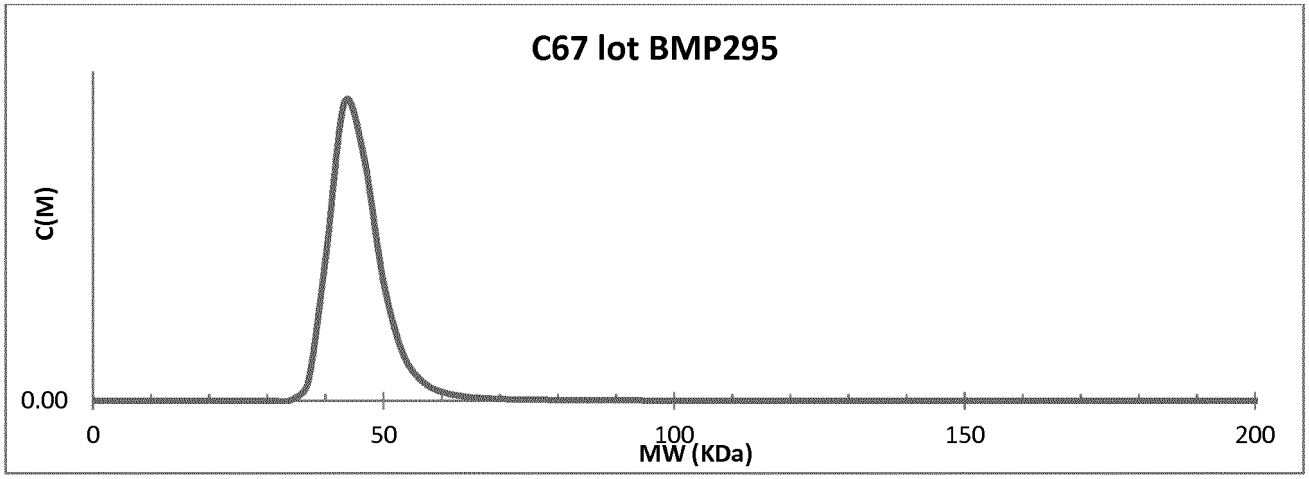


Figure 1b

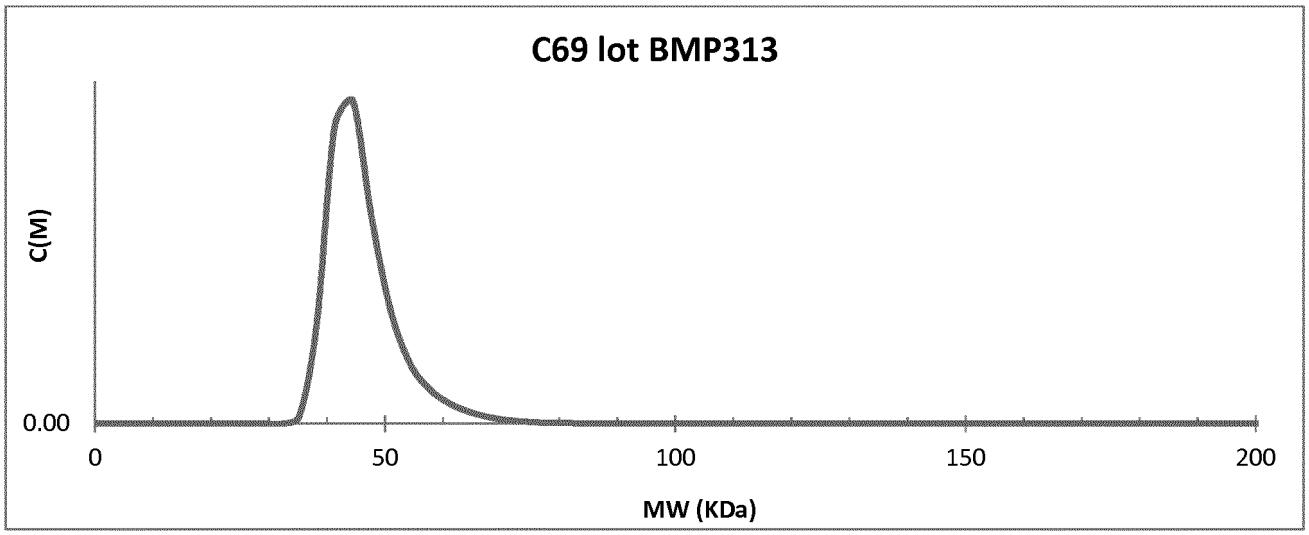


Figure 1c

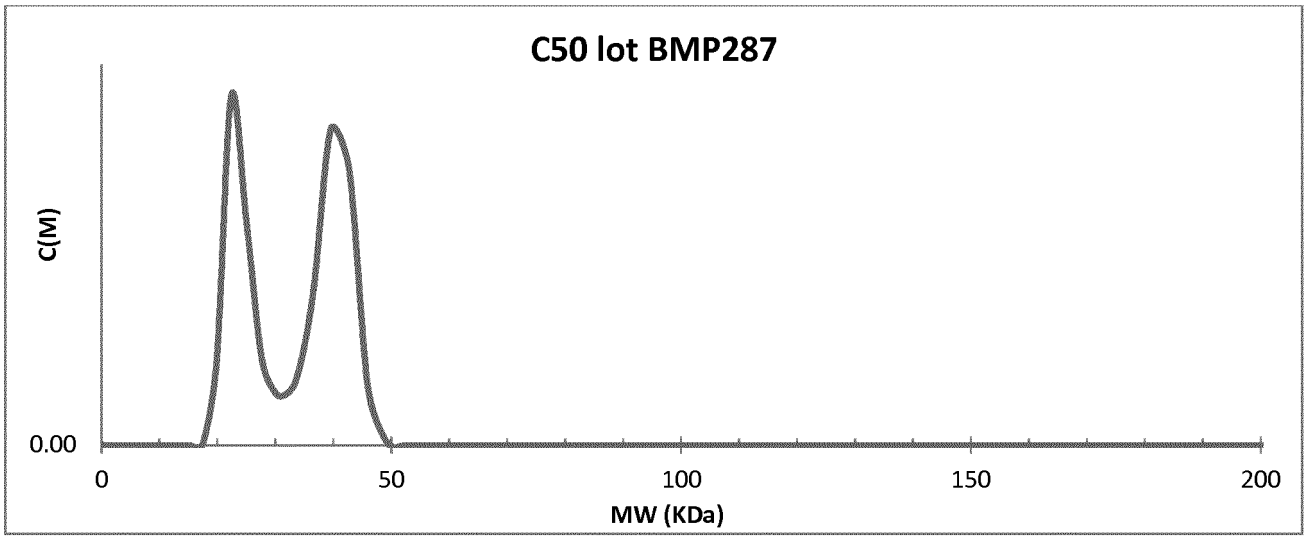


Figure 1d

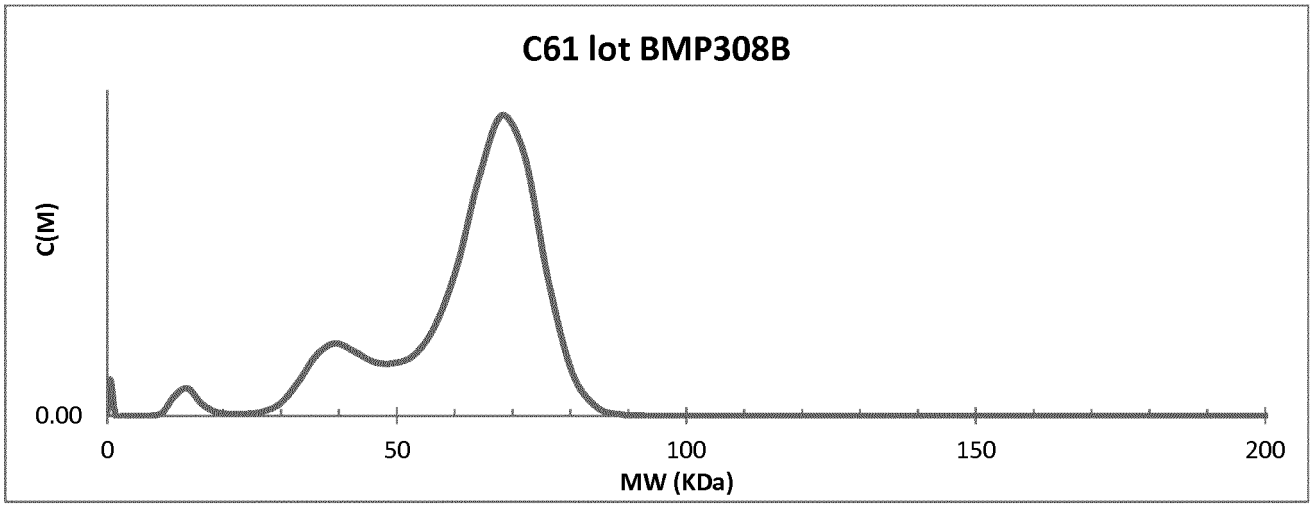


Figure 1e

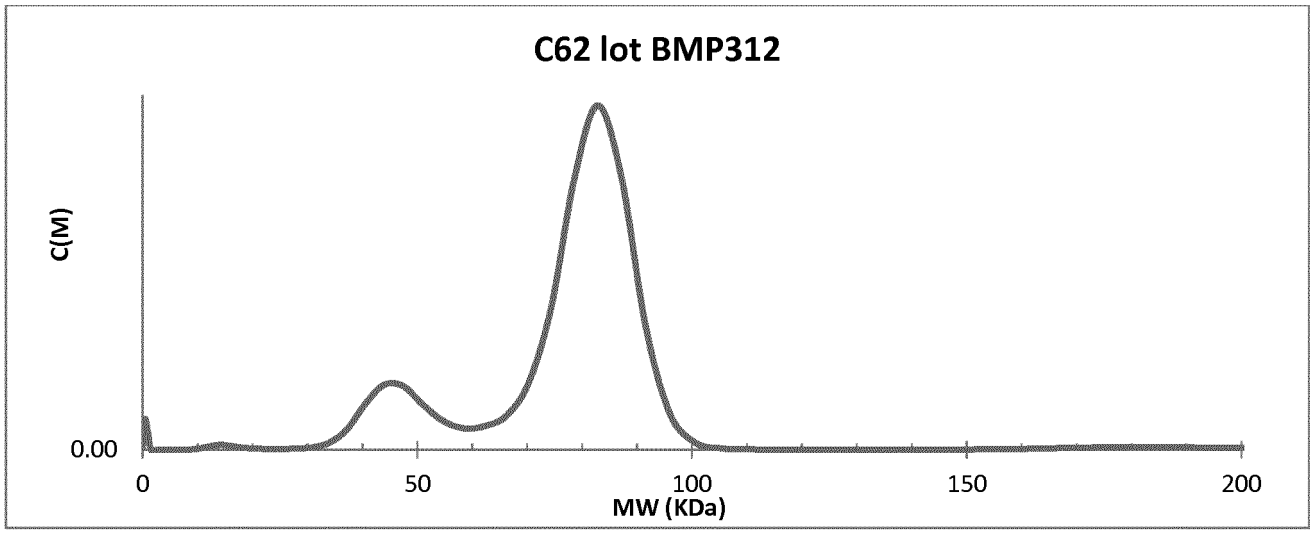


Figure 1f

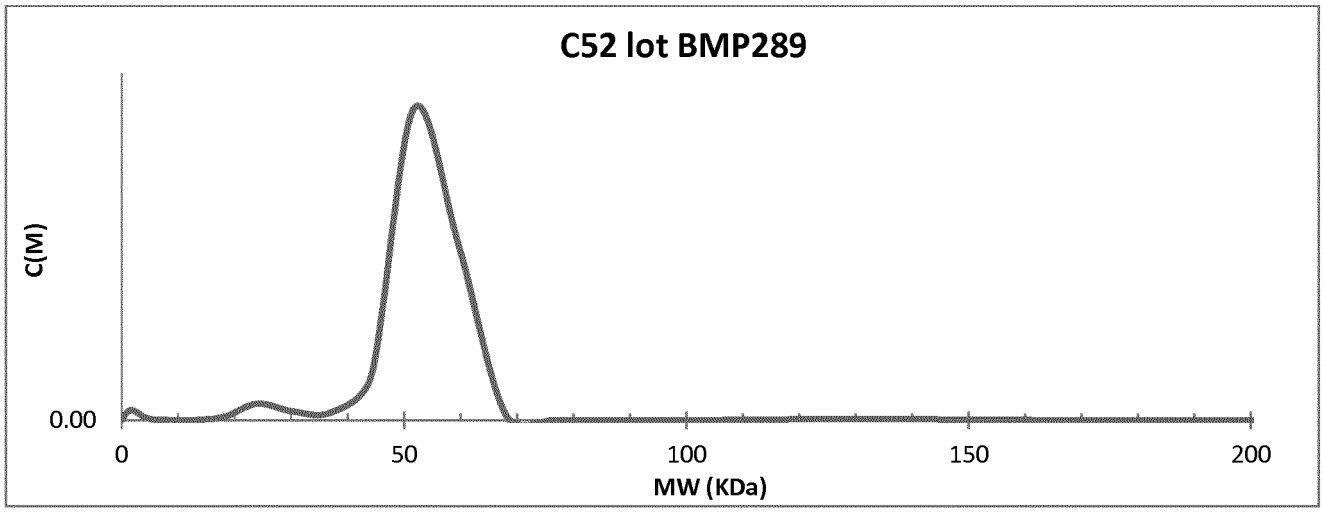


Figure 1g

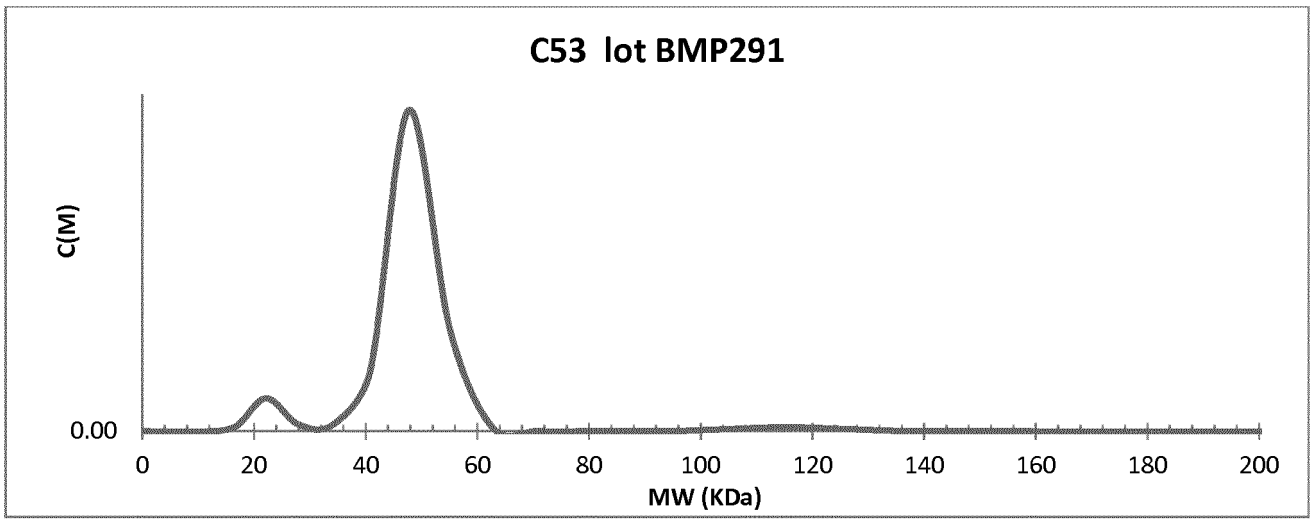


Figure 1h

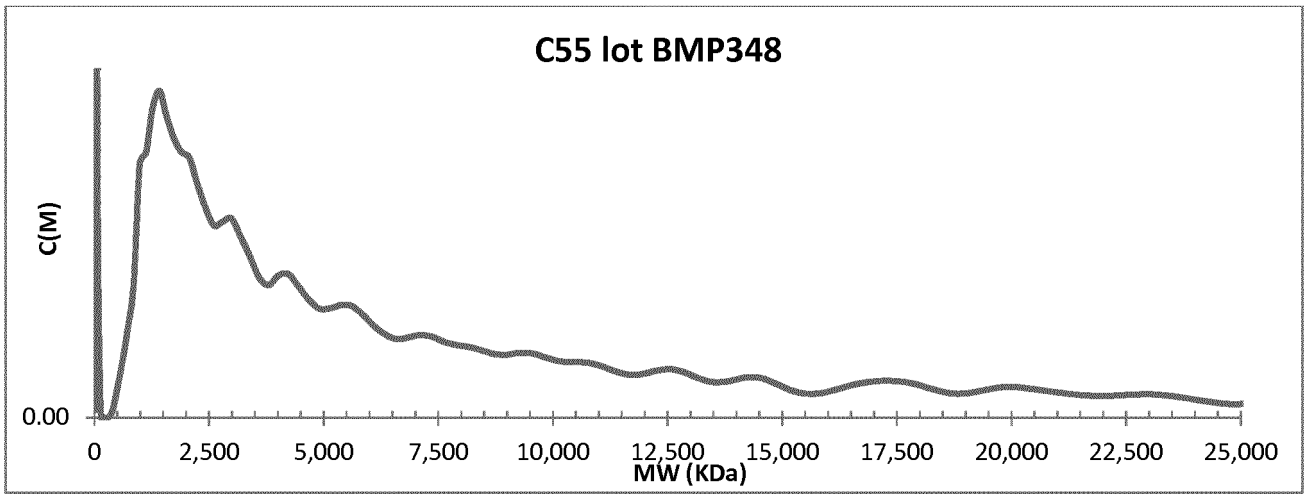


Figure 2a

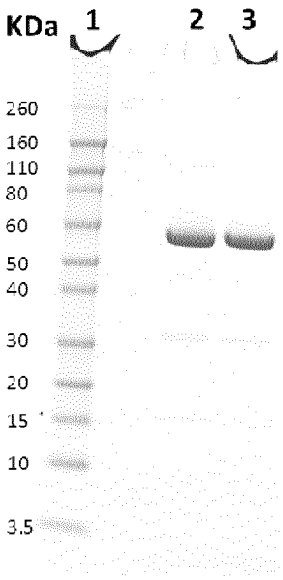


Figure 2b

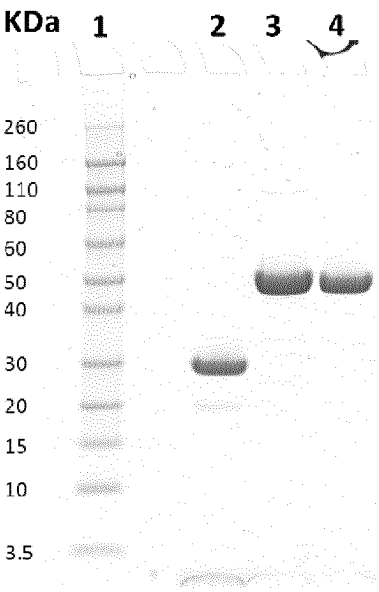


Figure 2c

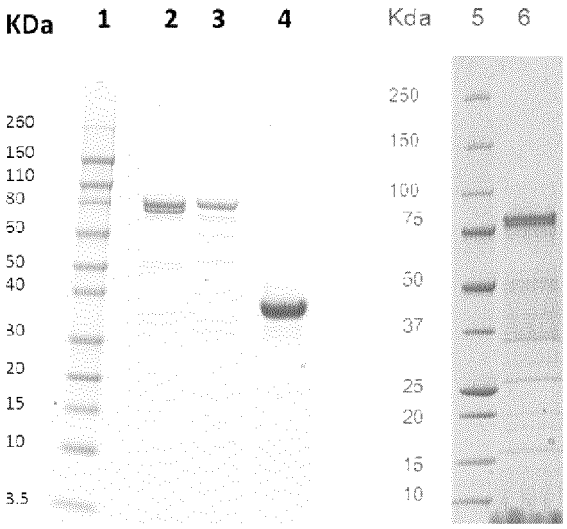

KDa
1
2
3
4
260
150
110
80
60
50
40
30
20
15
10
3.5
Kda
5
6
250
150
100
75
50
37
25
20
15
10

Figure 3

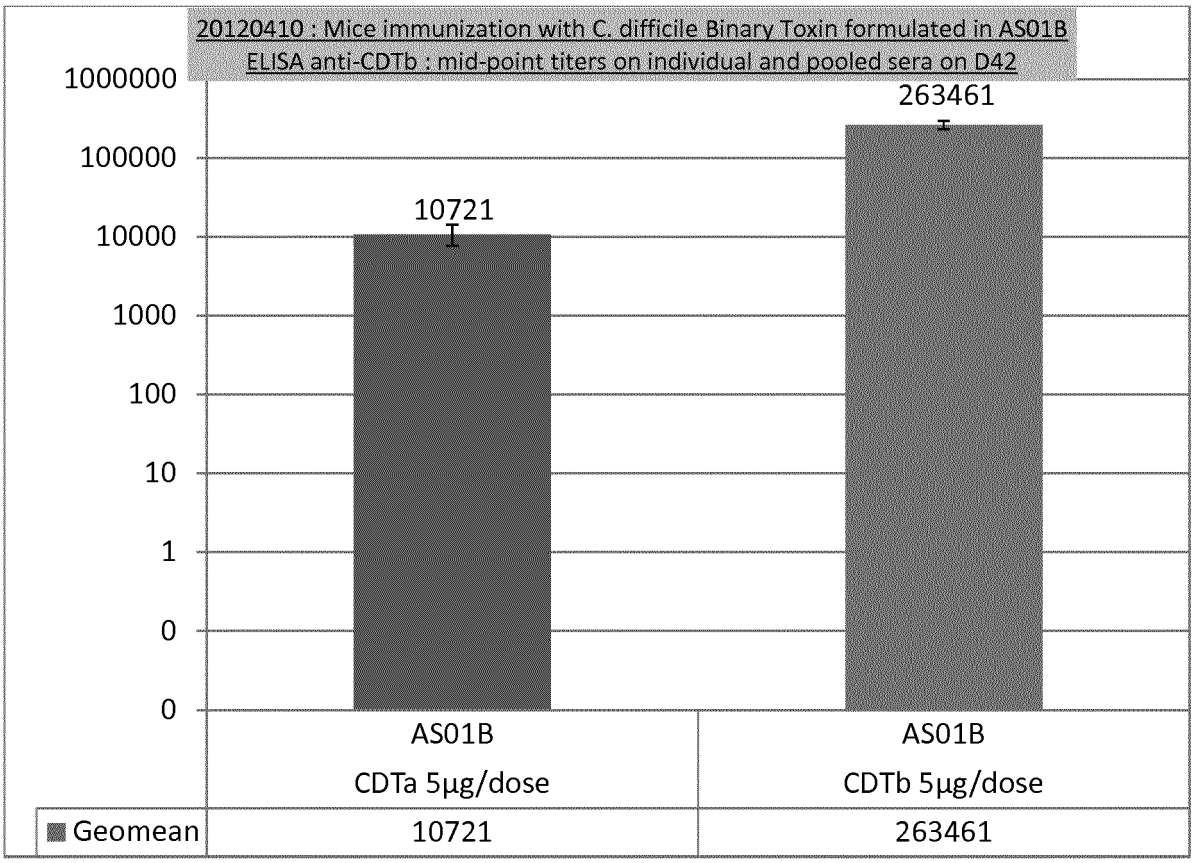

20120410 : Mice immunization with C. difficile Binary Toxin formulated in AS01B
ELISA anti-CDTb : mid-point titers on individual and pooled sera on D42
1000000
100000
10000
1000
100
10
1
0
0
10721
263461
AS01B
CDTa 5µg/dose
AS01B
CDTb 5µg/dose
Geomean
10721
263461

Figure 4

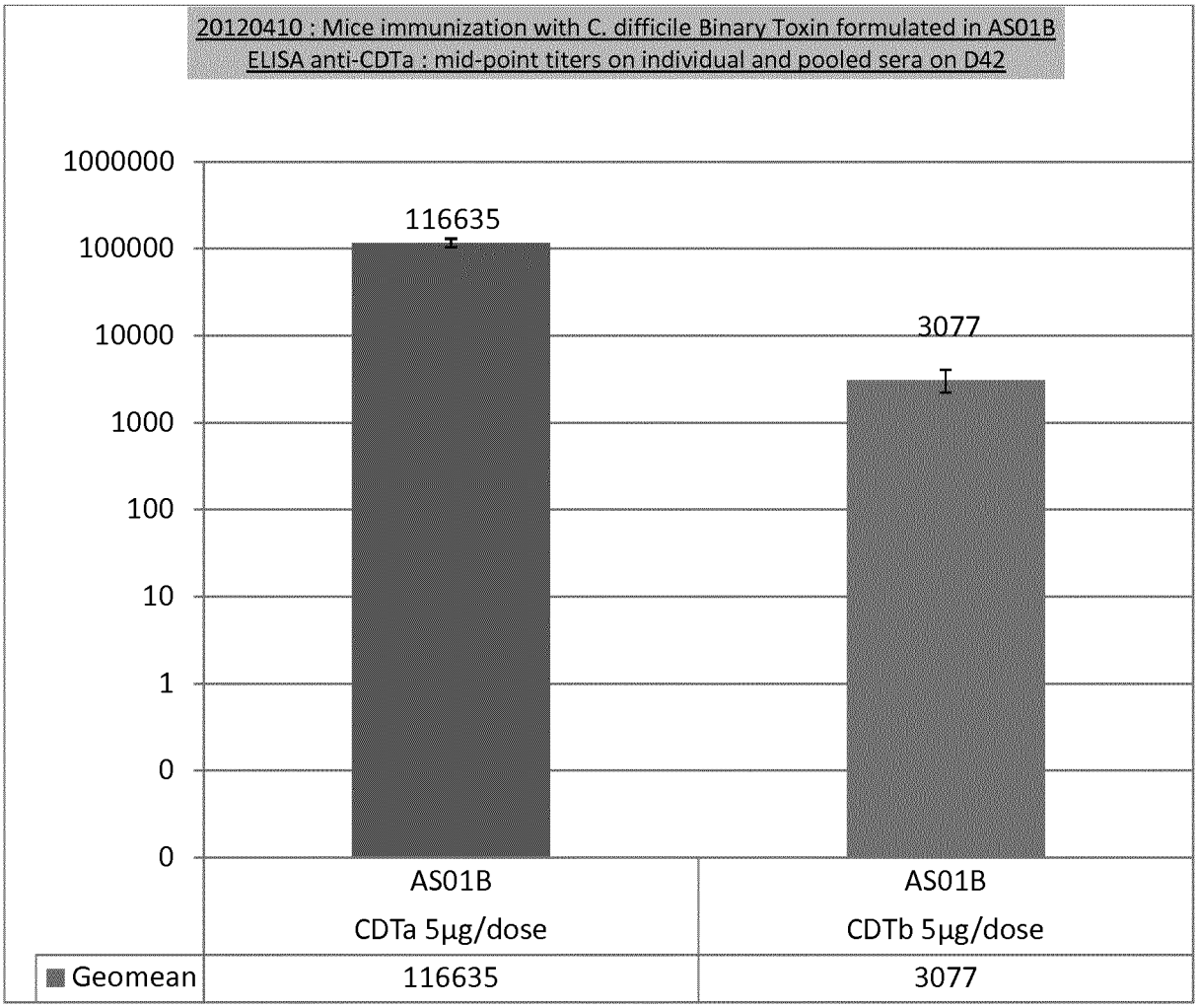

20120410 : Mice immunization with C. difficile Binary Toxin formulated in AS01B
ELISA anti-CDTa : mid-point titers on individual and pooled sera on D42
1000000
100000
10000
1000
100
10
1
0
0
116635
3077
AS01B
CDTa 5µg/dose
AS01B
CDTb 5µg/dose
Geomean
116635
3077

FIGURE 5

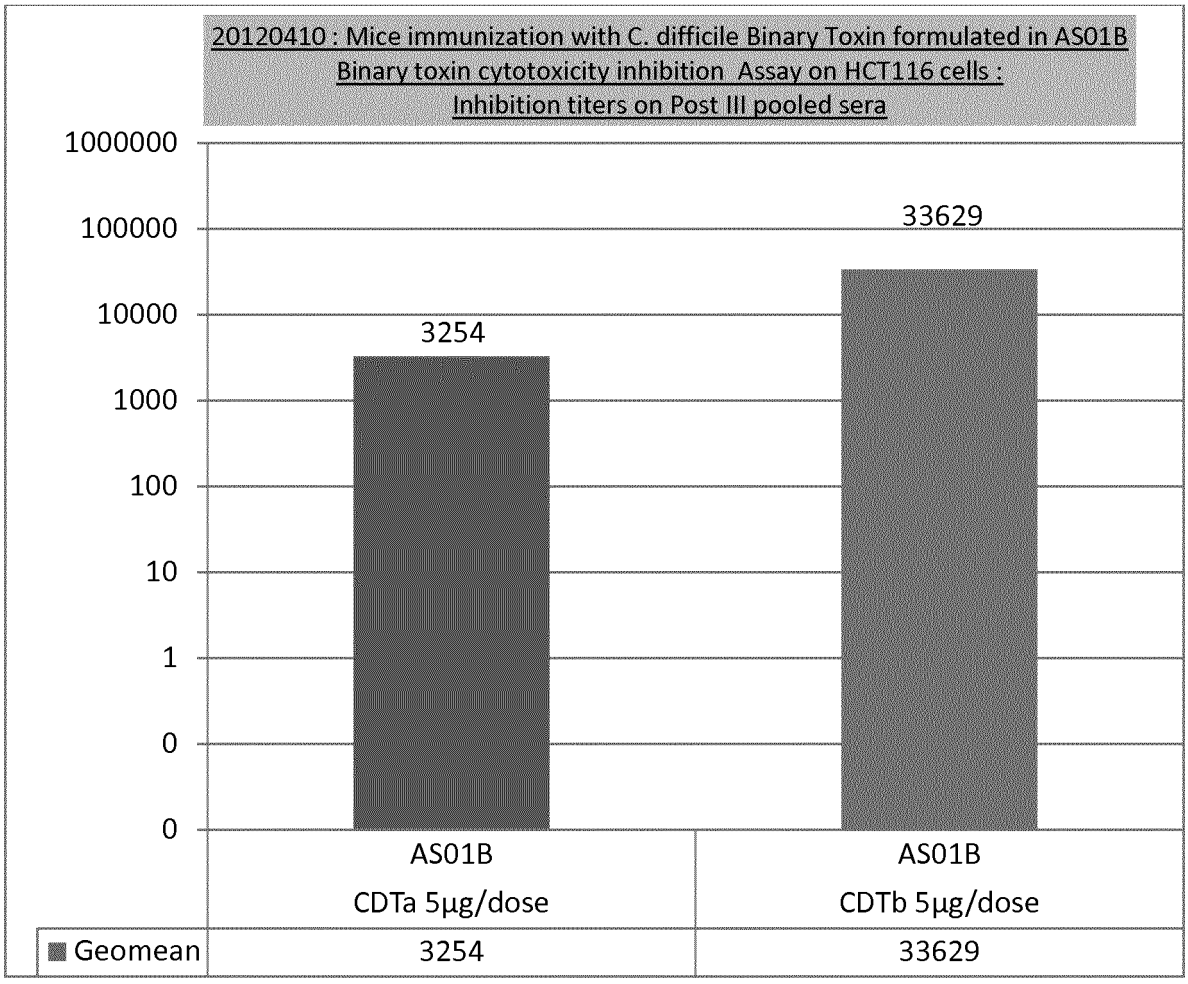

20120410 : Mice immunization with C. difficile Binary Toxin formulated in AS01B
Binary toxin cytotoxicity inhibition Assay on HCT116 cells :
Inhibition titers on Post III pooled sera
1000000
100000
10000
1000
100
10
1
0
0
3254
33629
AS01B
CDTa 5µg/dose
AS01B
CDTb 5µg/dose
Geomean
3254
33629

FIGURE 6

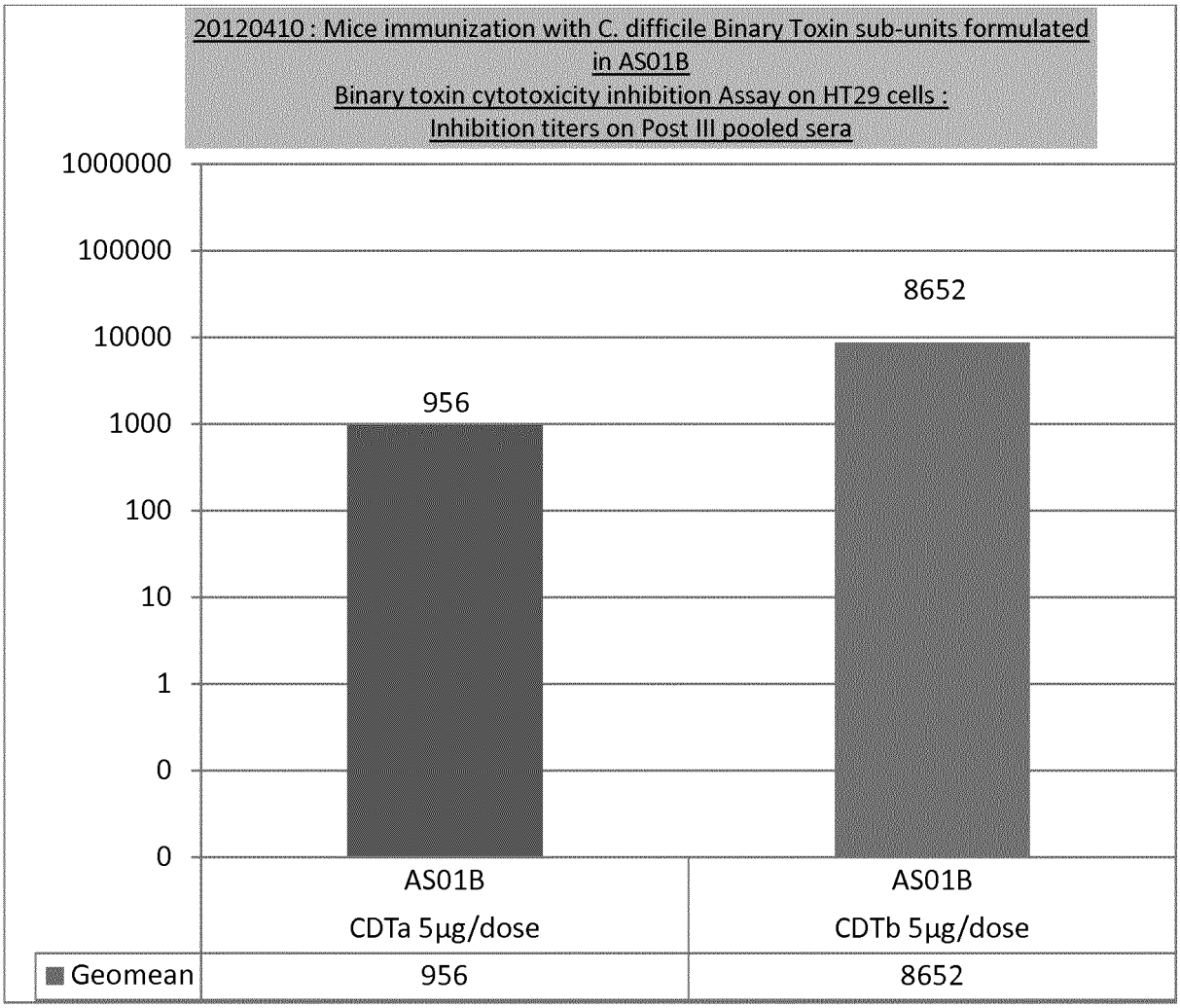

20120410 : Mice immunization with C. difficile Binary Toxin sub-units formulated in AS01B
Binary toxin cytotoxicity inhibition Assay on HT29 cells :
Inhibition titers on Post III pooled sera
1000000
100000
10000
1000
100
10
1
0
0
956
8652
AS01B
CDTa 5µg/dose
AS01B
CDTb 5µg/dose
Geomean
956
8652

FIGURE 7

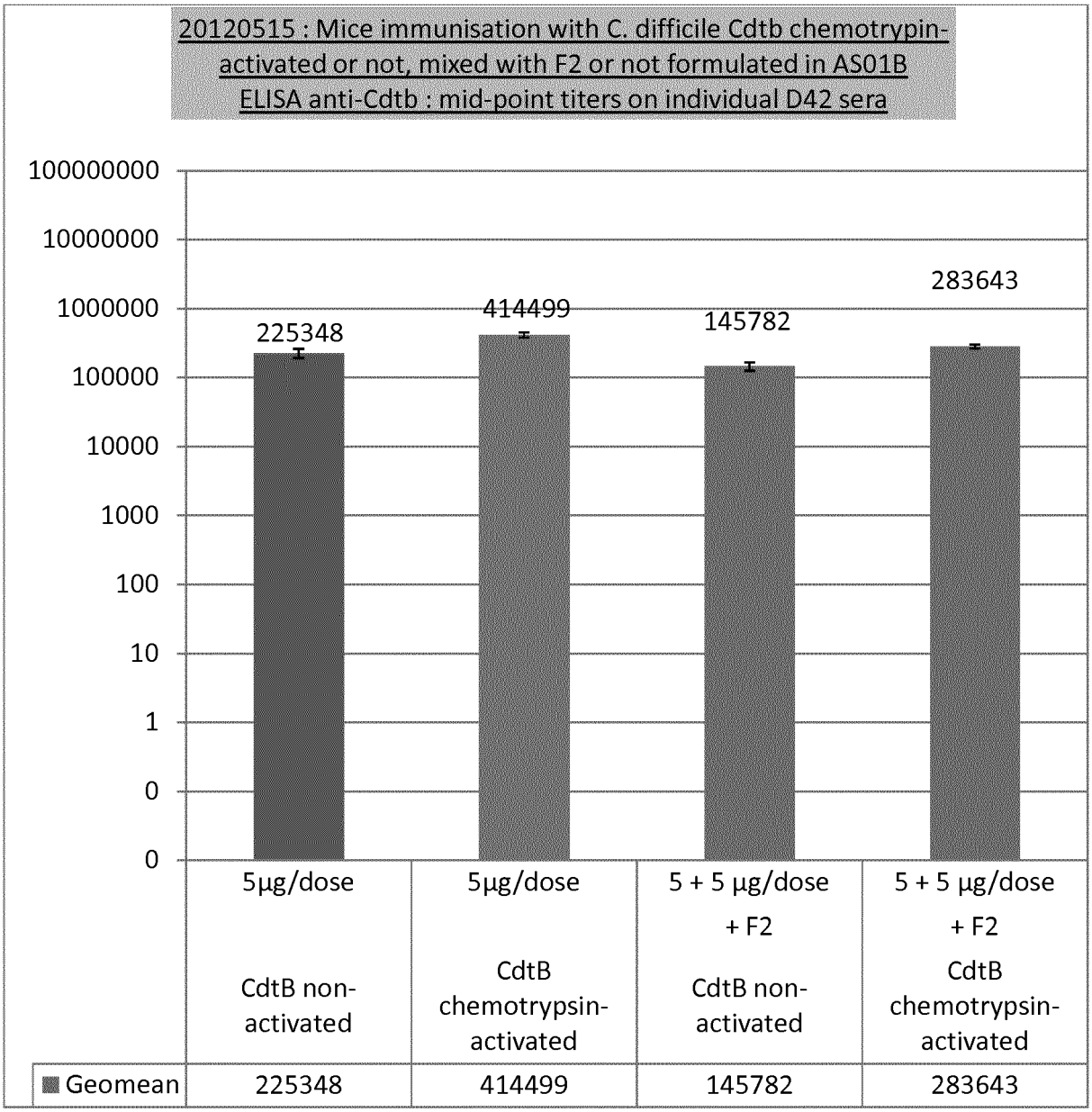

20120515 : Mice immunisation with C. difficile Cdtb chemotrypin-activated or not, mixed with F2 or not formulated in AS01B
ELISA anti-Cdtb : mid-point titers on individual D42 sera
100000000
10000000
1000000
100000
10000
1000
100
10
1
0
0
225348
414499
145782
283643
5µg/dose
CdtB non-activated
5µg/dose
CdtB chemotrypsin-activated
5 + 5 µg/dose + F2
CdtB non-activated
5 + 5 µg/dose + F2
CdtB chemotrypsin-activated
Geomean
225348
414499
145782
283643

FIGURE 8

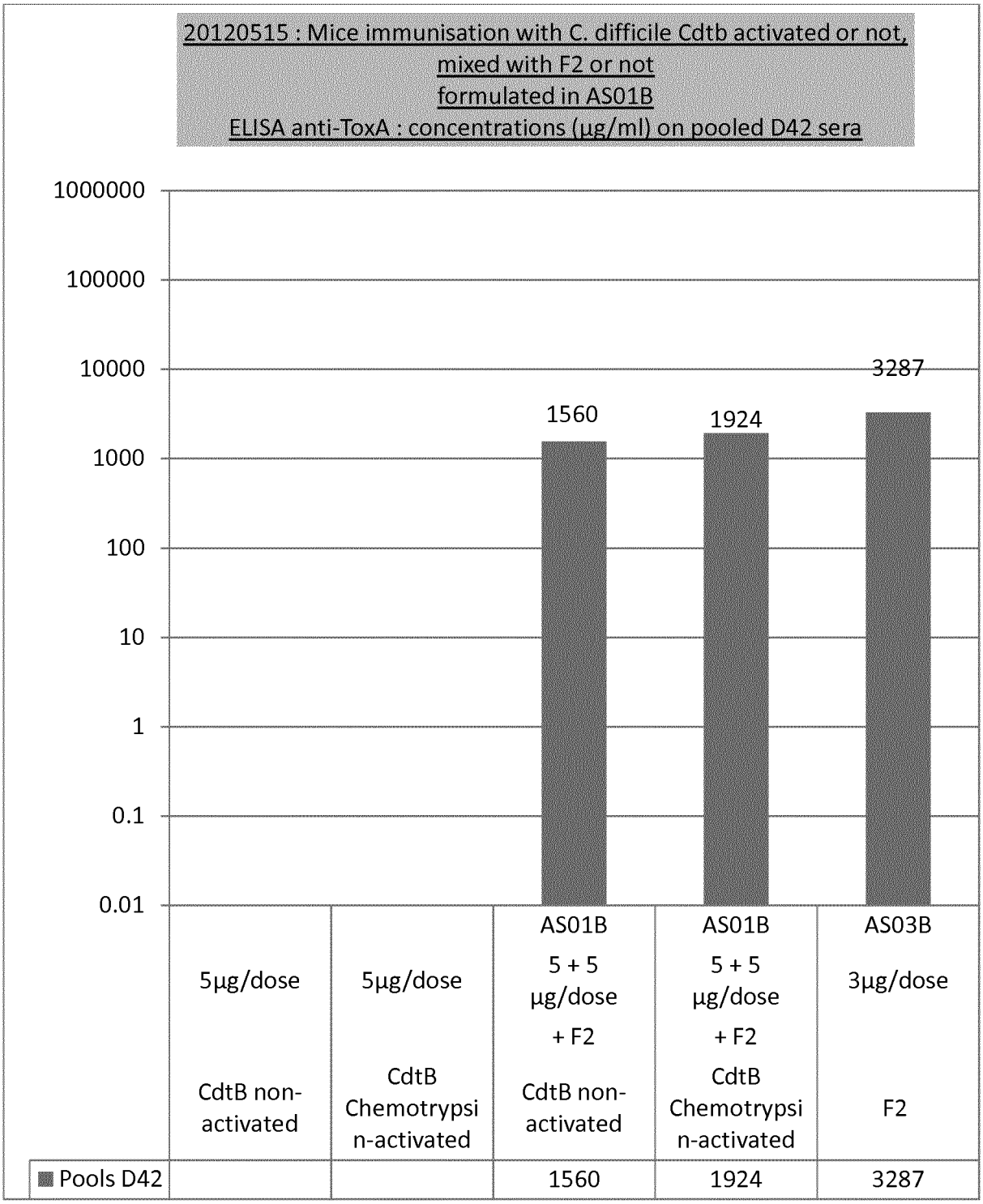

20120515 : Mice immunisation with C. difficile Cdtb activated or not, mixed with F2 or not
formulated in AS01B
ELISA anti-ToxA : concentrations (µg/ml) on pooled D42 sera
1000000
100000
10000
1000
100
10
1
0.1
0.01
1560
1924
3287
5µg/dose
CdtB non-activated
5µg/dose
CdtB Chemotrypsin-activated
AS01B
5 + 5 µg/dose
+ F2
CdtB non-activated
AS01B
5 + 5 µg/dose
+ F2
CdtB Chemotrypsin-activated
AS03B
3µg/dose
F2
Pools D42
1560
1924
3287

FIGURE 9

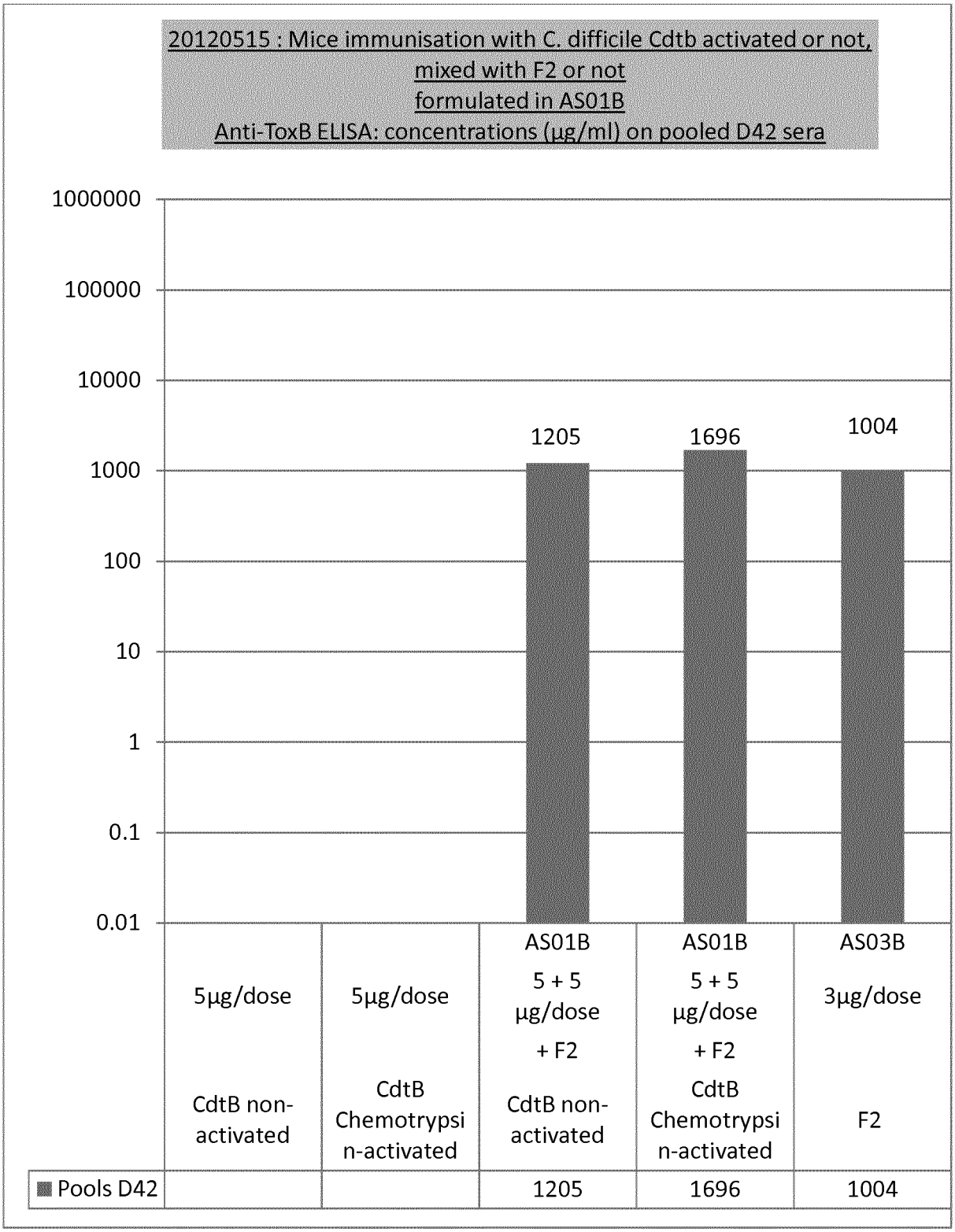

20120515 : Mice immunisation with C. difficile Cdtb activated or not, mixed with F2 or not
formulated in AS01B
Anti-ToxB ELISA: concentrations (µg/ml) on pooled D42 sera
1000000
100000
10000
1000
100
10
1
0.1
0.01
1205
1696
1004
5µg/dose
CdtB non-activated
5µg/dose
CdtB Chemotrypsin-activated
AS01B
5 + 5 µg/dose
+ F2
CdtB non-activated
AS01B
5 + 5 µg/dose
+ F2
CdtB Chemotrypsin-activated
AS03B
3µg/dose
F2
Pools D42
1205
1696
1004

FIGURE 10

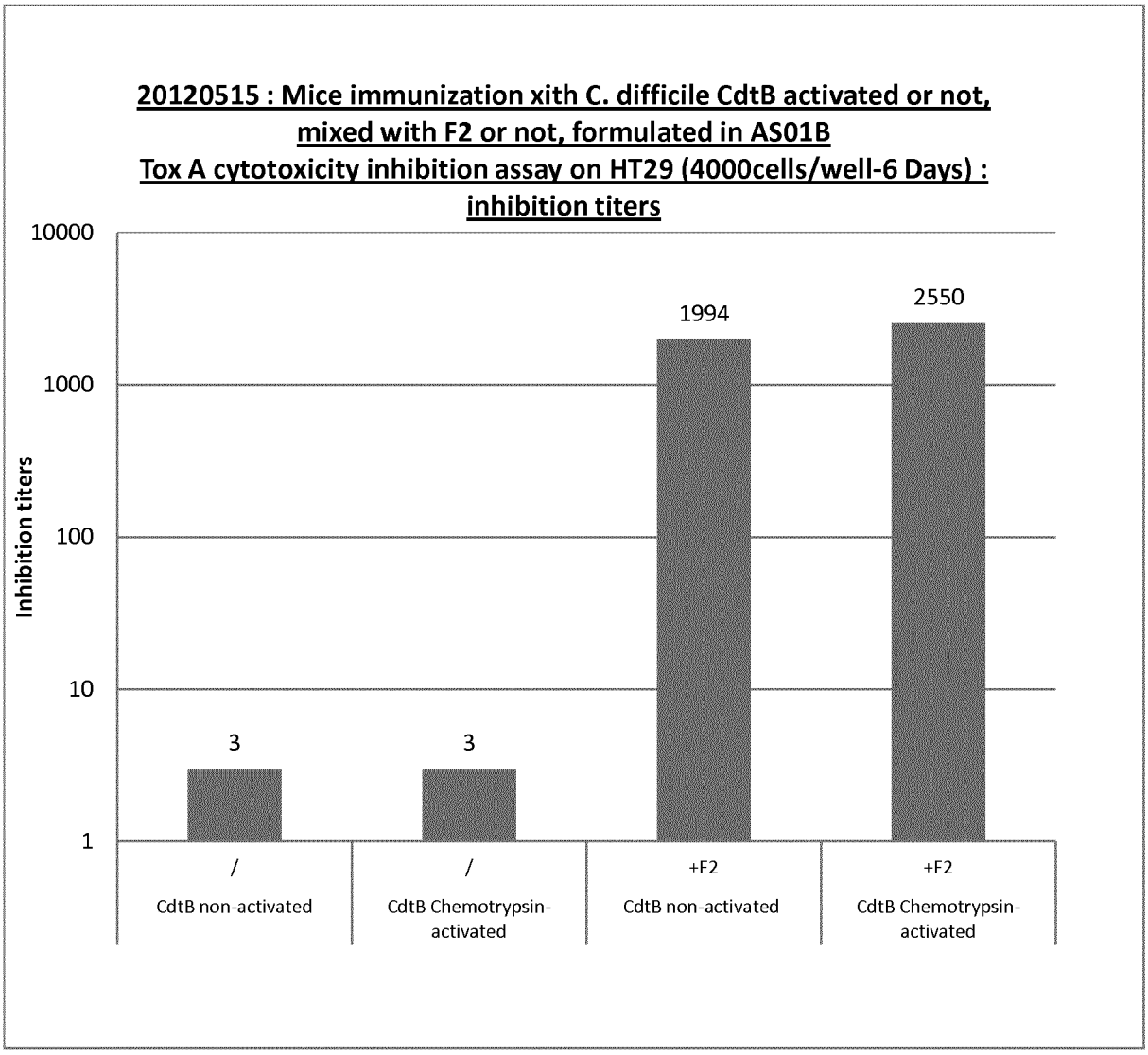

20120515 : Mice immunization xith C. difficile CdtB activated or not, mixed with F2 or not, formulated in AS01B
Tox A cytotoxicity inhibition assay on HT29 (4000cells/well-6 Days) : inhibition titers
Inhibition titers
10000
1000
100
10
1
3
3
1994
2550
/
CdtB non-activated
/
CdtB Chemotrypsin-activated
+F2
CdtB non-activated
+F2
CdtB Chemotrypsin-activated

FIGURE 11

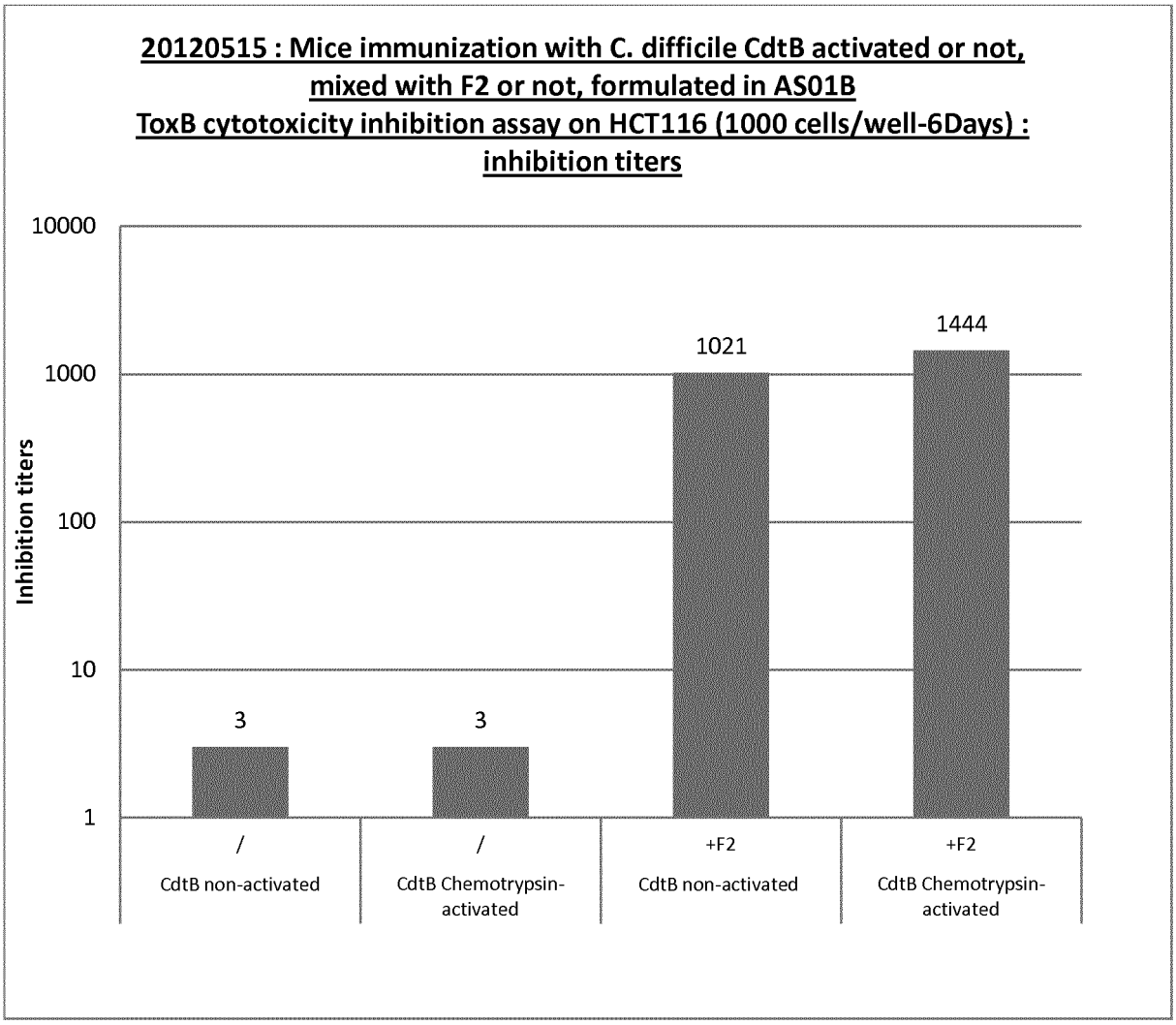

20120515 : Mice immunization with C. difficile CdtB activated or not, mixed with F2 or not, formulated in AS01B
ToxB cytotoxicity inhibition assay on HCT116 (1000 cells/well-6Days) : inhibition titers
Inhibition titers
10000
1000
100
10
1
3
3
1021
1444
/
CdtB non-activated
/
CdtB Chemotrypsin-activated
+F2
CdtB non-activated
+F2
CdtB Chemotrypsin-activated

FIGURE 12

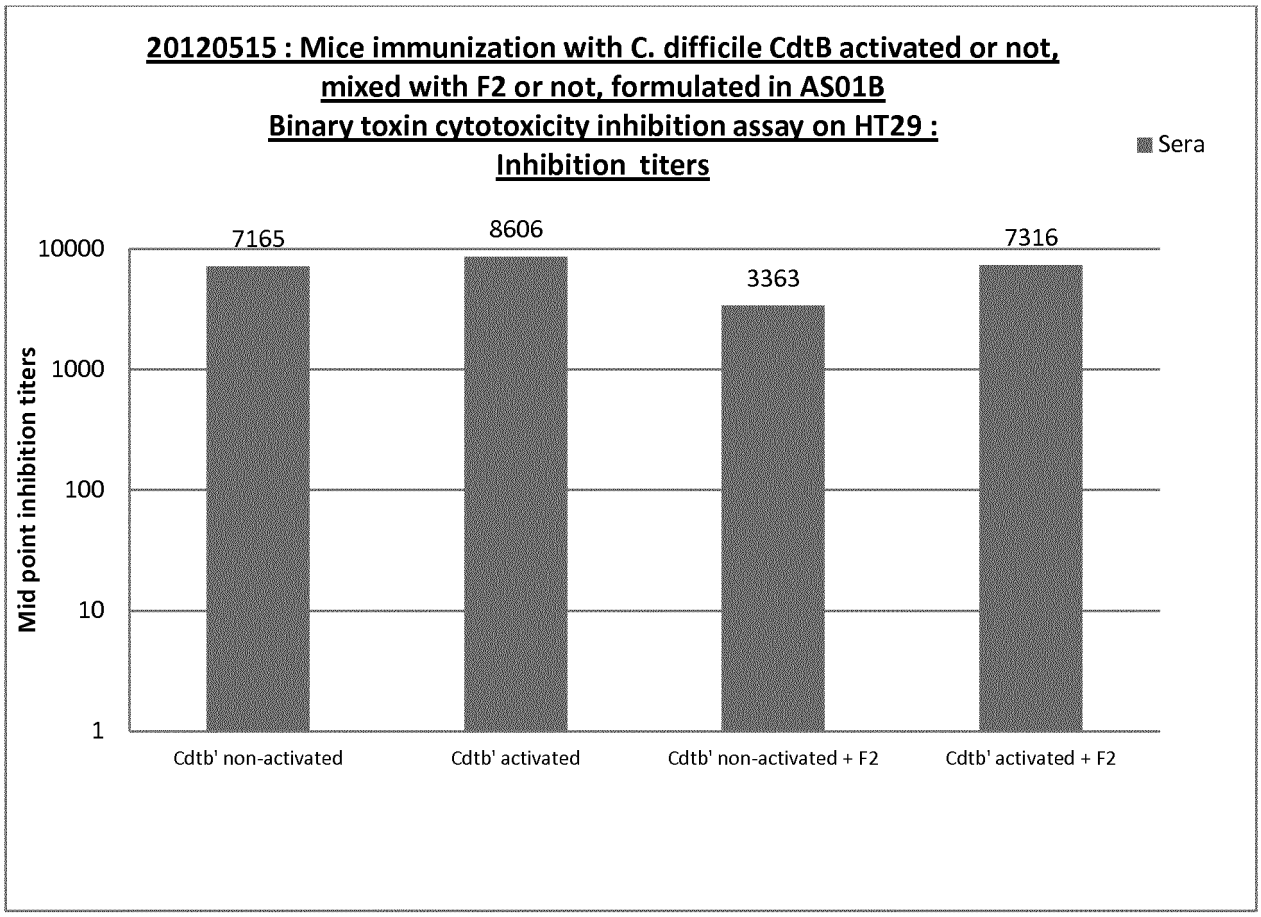

20120515 : Mice immunization with C. difficile CdtB activated or not, mixed with F2 or not, formulated in AS01B
Binary toxin cytotoxicity inhibition assay on HT29 : Inhibition titers
Sera
Mid point inhibition titers
10000
1000
100
10
1
7165
8606
3363
7316
Cdtb' non-activated
Cdtb' activated
Cdtb' non-activated + F2
Cdtb' activated + F2

FIGURE 13

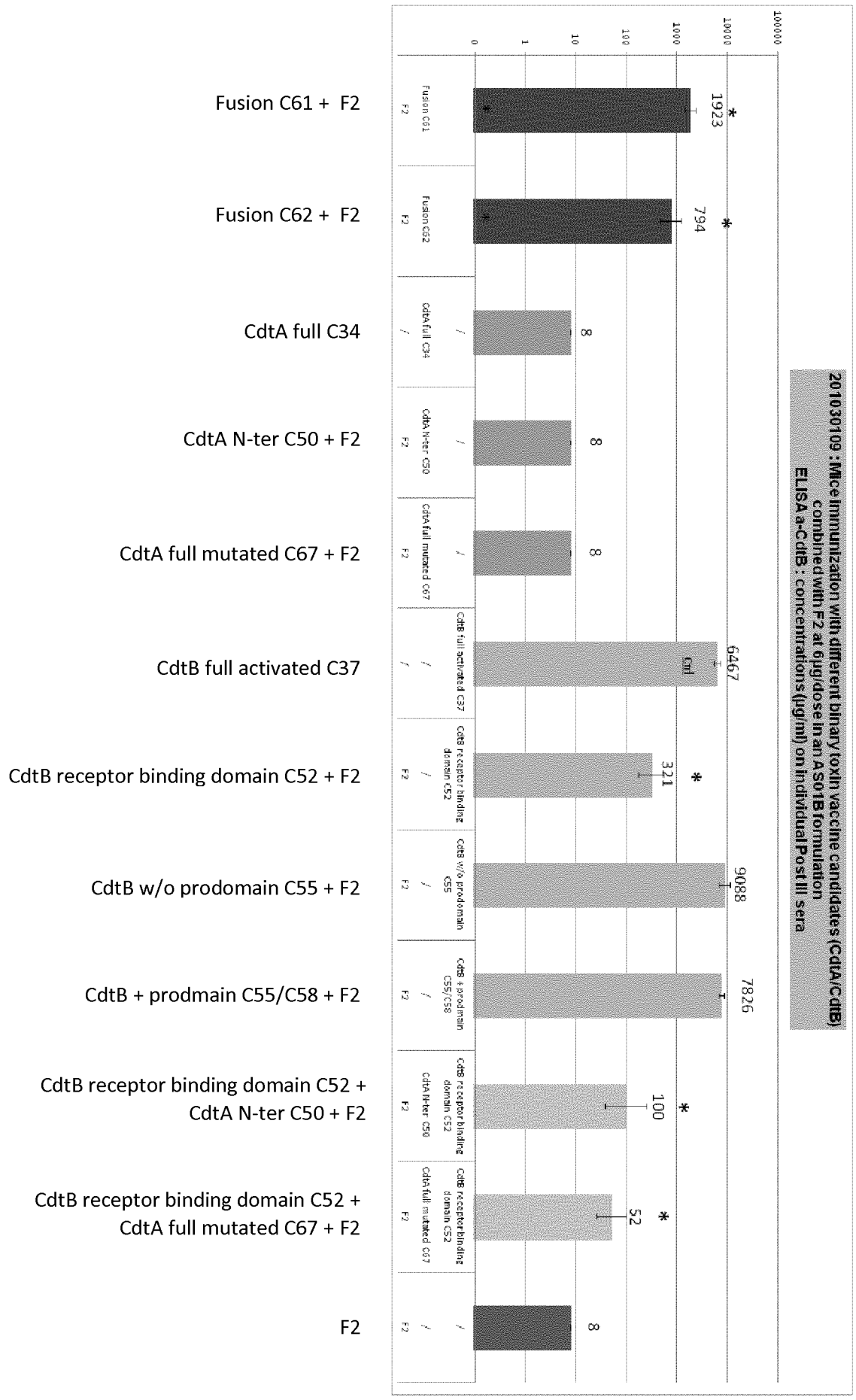

20130109 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 6µg/dose in an AS01B formulation
ELISA a-CdtB : concentrations (µg/ml) on individual Post III sera
100000
10000
1000
100
10
1
0
1923
794
8
8
8
6467
321
9088
7826
100
52
8
Ctrl
Fusion C61 + F2
Fusion C62 + F2
CdtA full C34
CdtA N-ter C50 + F2
CdtA full mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA full mutated C67 + F2
F2

FIGURE 14

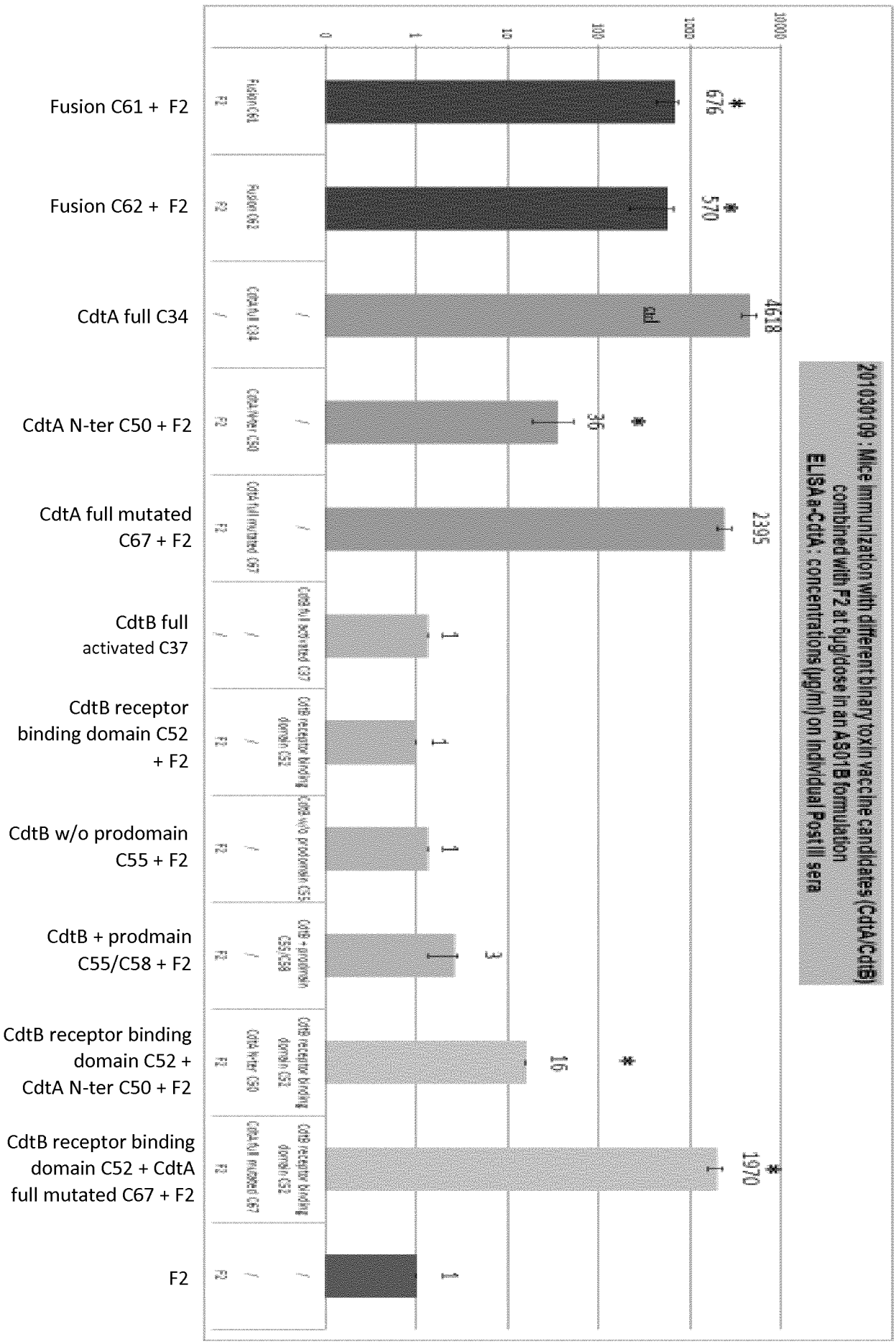
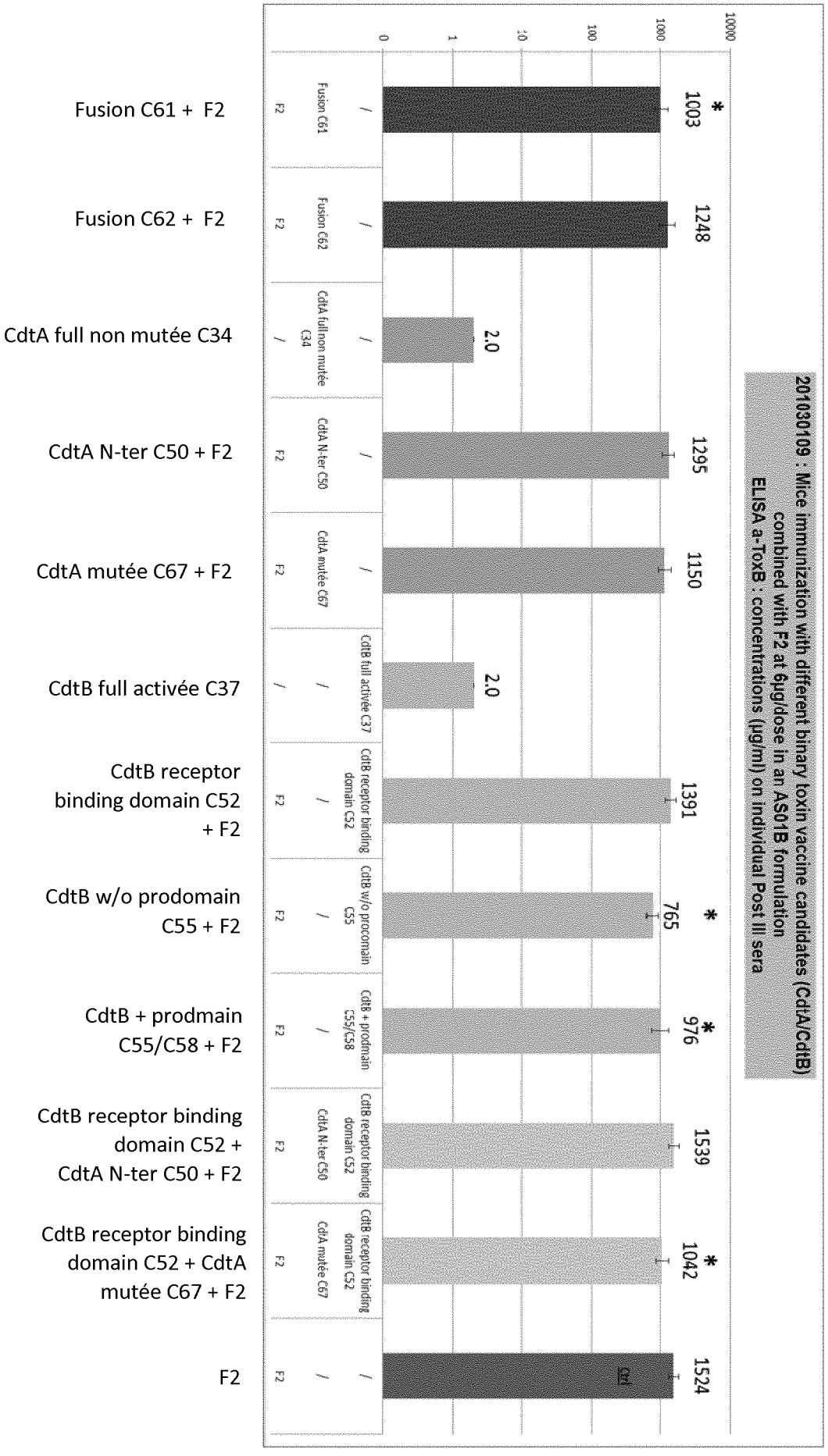

20130109 ; Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 6µg/dose in an AS01B formulation
ELISA: α-CdtA ; concentrations (µg/ml) on Individual Post III sera
0
1
10
100
1000
10000
676
570
4618
36
2395
1
1
1
1
3
16
1970
1
Fusion C61 + F2
Fusion C62 + F2
CdtA full C34
CdtA N-ter C50 + F2
CdtA full mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA full mutated C67 + F2
F2

FIGURE 15



Fusion C61 + F2

Fusion C62 + F2

CdtA full non mutée C34

CdtA N-ter C50 + F2

CdtA mutée C67 + F2

CdtB full activée C37

CdtB receptor binding domain C52 + F2

CdtB w/o prodomain C55 + F2

CdtB + prodmain C55/C58 + F2

CdtB receptor binding domain C52 + CdtA N-ter C50 + F2

CdtB receptor binding domain C52 + CdtA mutée C67 + F2

F2

FIGURE 16

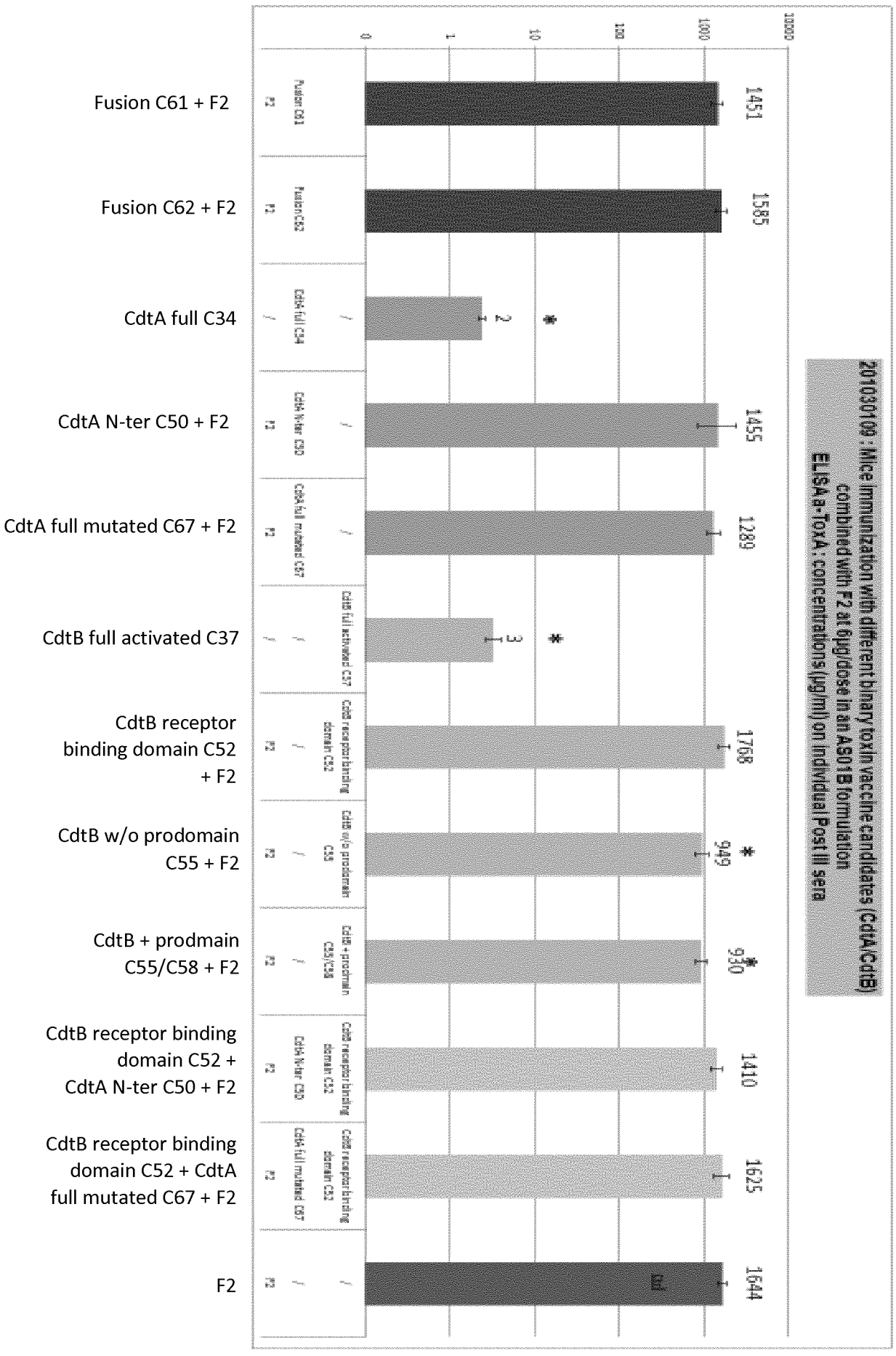

20130109 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 6µg/dose in an AS01B formulation
ELISA α-ToxA : concentrations (pg/ml) on Individual Post III sera
10000
1000
100
10
1
0
1451
1585
2
1455
1289
3
1768
949
930
1410
1625
1644
Fusion C61 + F2
Fusion C62 + F2
CdtA full C34
CdtA N-ter C50 + F2
CdtA full mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA full mutated C67 + F2
F2

FIGURE 17

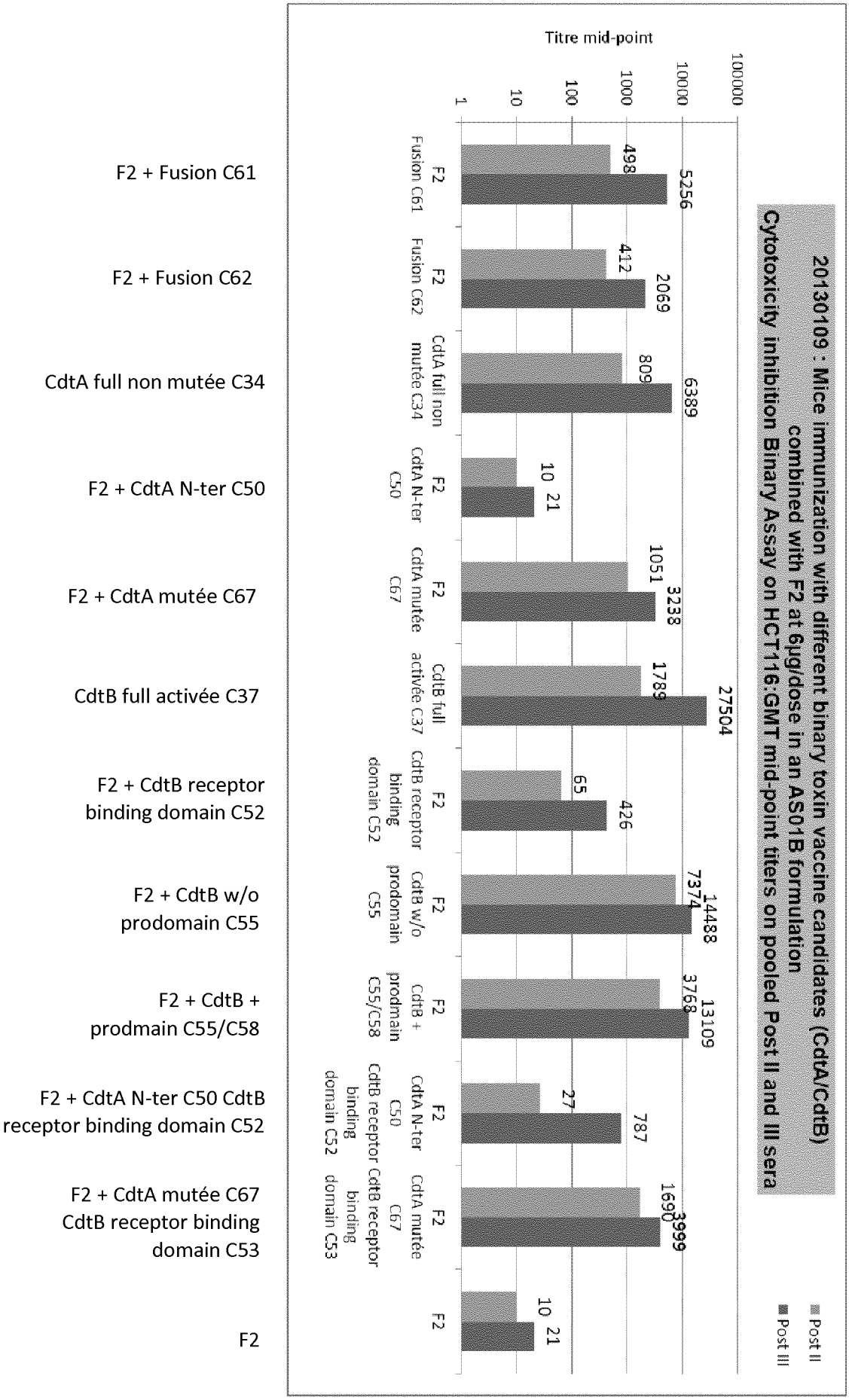

20130109 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 6µg/dose in an AS01B formulation
Cytotoxicity Inhibition Binary Assay on HCT116:GMT mid-point titers on pooled Post II and III sera
Titre mid-point
100000
10000
1000
100
10
1
Post II
Post III
498
5256
412
2069
809
6389
10
21
1051
3238
1789
27504
65
426
7374
14488
3768
13109
27
787
1690
3999
10
21
F2 + Fusion C61
F2 + Fusion C62
CdtA full non mutée C34
F2 + CdtA N-ter C50
F2 + CdtA mutée C67
CdtB full activée C37
F2 + CdtB receptor binding domain C52
F2 + CdtB w/o prodomain C55
F2 + CdtB + prodmain C55/C58
F2 + CdtA N-ter C50 CdtB receptor binding domain C52
F2 + CdtA mutée C67 CdtB receptor binding domain C53
F2

FIGURE 18

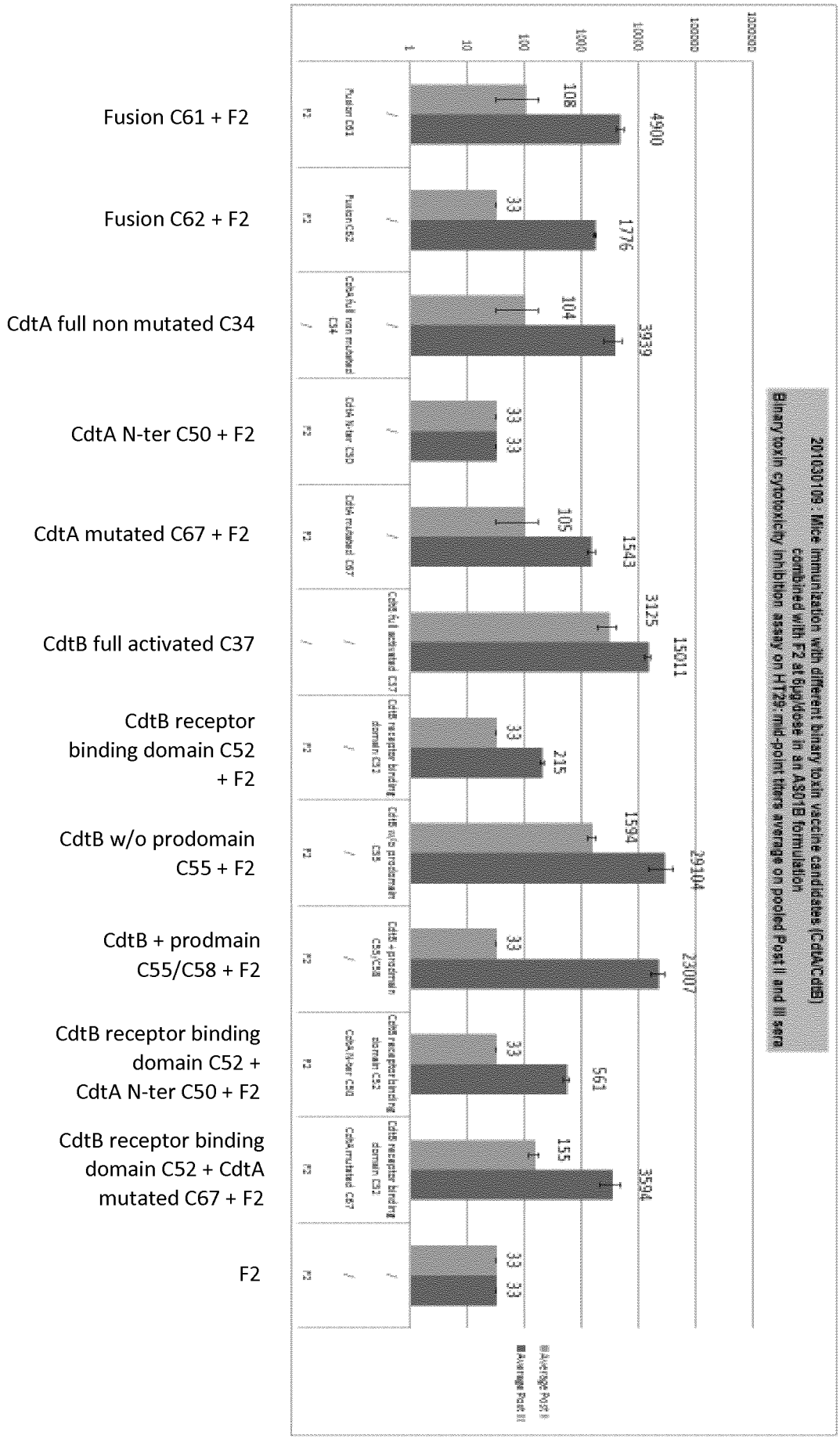
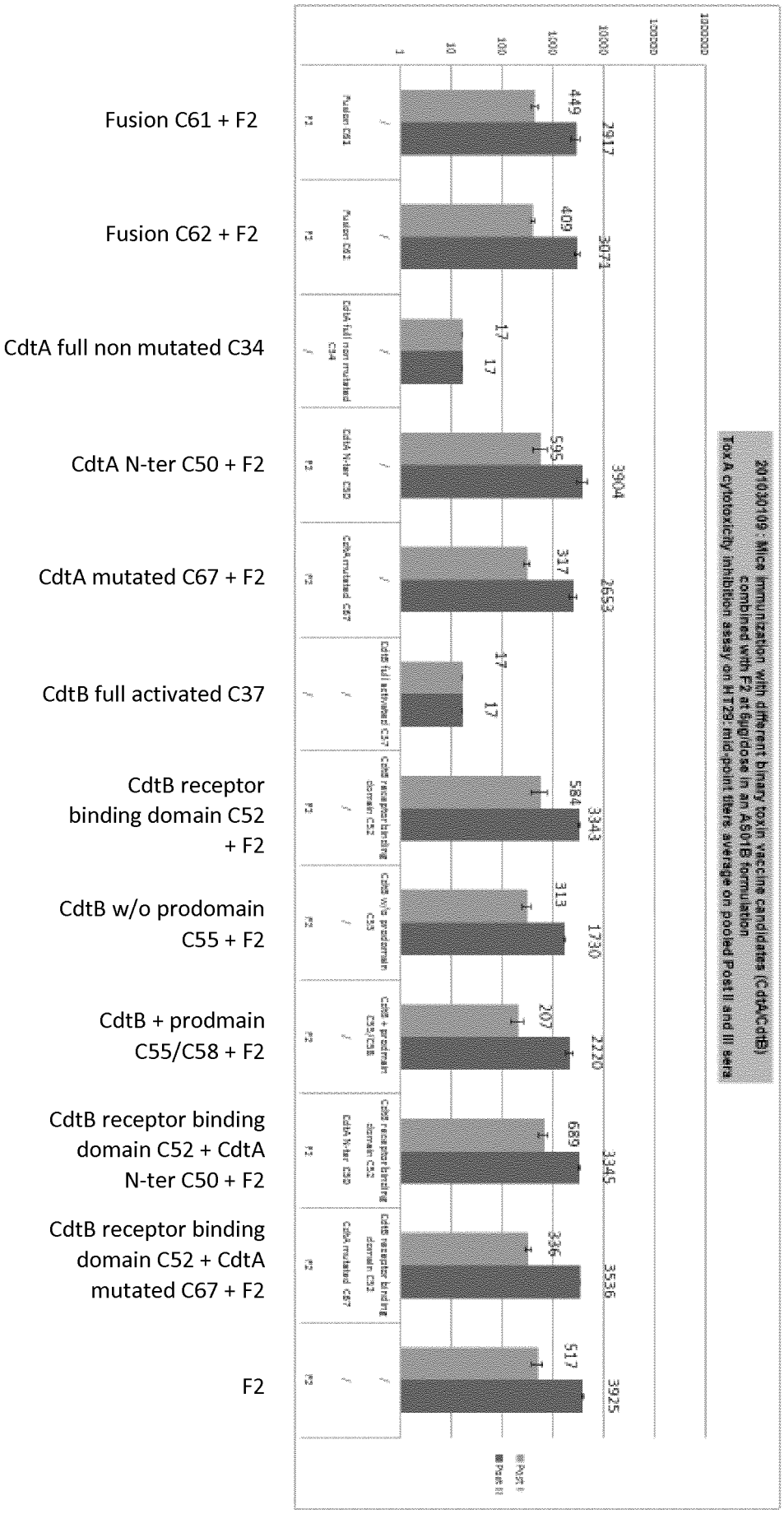

20130109 : Mice immunization with different binary toxin vaccine candidates (CdtACdtB)
combined with F2 at 6µg/dose in an AS01B formulation
Binary toxin cytotoxicity inhibition assay on HT29: mid-point titers average on pooled Post II and III sera
Fusion C61 + F2
Fusion C62 + F2
CdtA full non mutated C34
CdtA N-ter C50 + F2
CdtA mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA mutated C67 + F2
F2
108
4900
33
1776
104
3939
33
33
105
1543
3125
15011
33
215
1594
29104
33
23007
33
561
155
3594
33
33

FIGURE 19



Fusion C61 + F2

Fusion C62 + F2

CdtA full non mutated C34

CdtA N-ter C50 + F2

CdtA mutated C67 + F2

CdtB full activated C37

CdtB receptor binding domain C52 + F2

CdtB w/o prodomain C55 + F2

CdtB + prodmain C55/C58 + F2

CdtB receptor binding domain C52 + CdtA N-ter C50 + F2

CdtB receptor binding domain C52 + CdtA mutated C67 + F2

F2

FIGURE 20

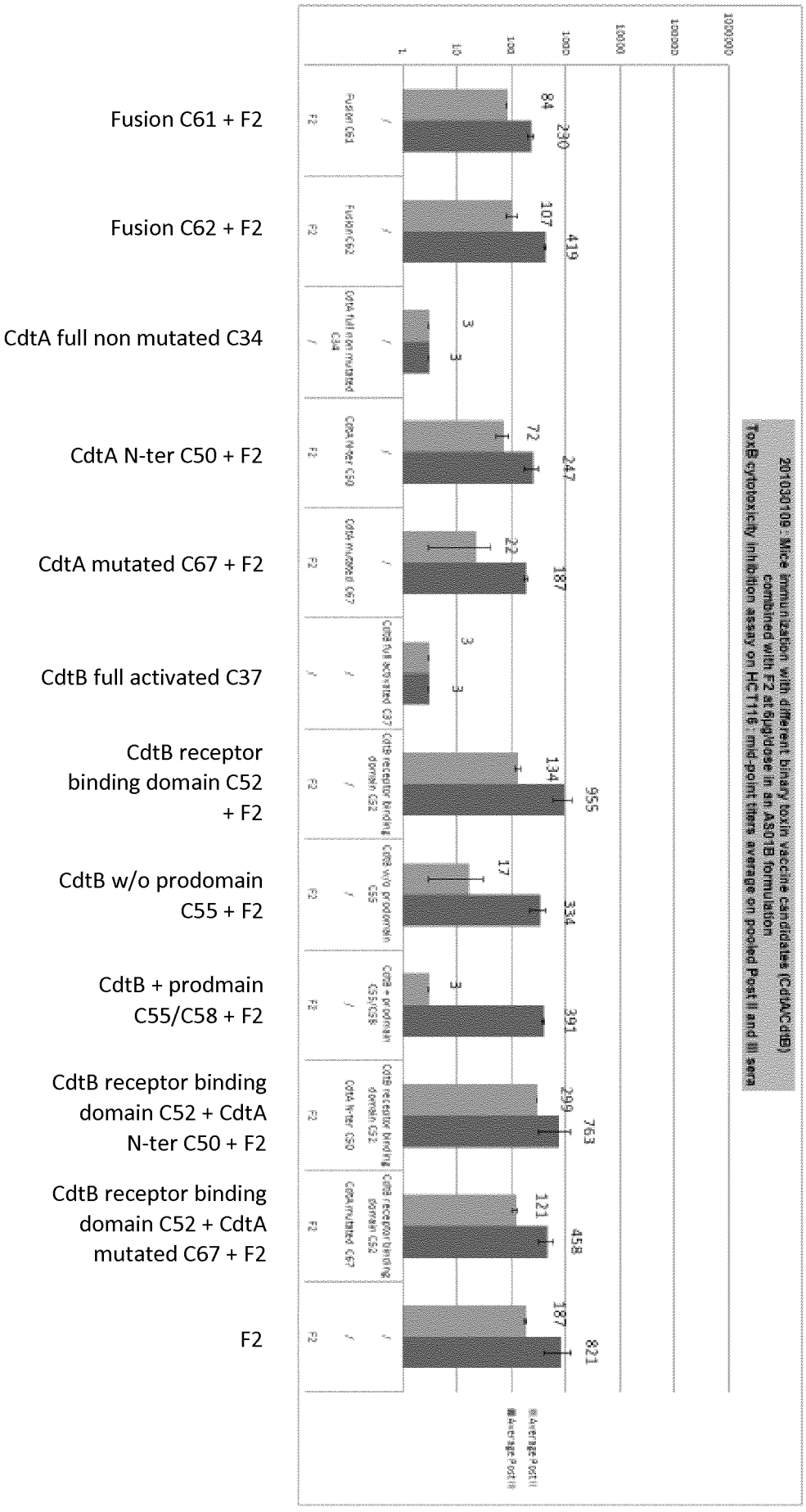

20130109 - Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 6µg/dose in an AS01B formulation
ToxB cytotoxicity inhibition assay on HCT116; mid-point titers average on pooled Post II and III sera
Fusion C61 + F2
Fusion C62 + F2
CdtA full non mutated C34
CdtA N-ter C50 + F2
CdtA mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA mutated C67 + F2
F2
84
230
107
419
3
3
72
247
22
187
3
3
134
955
17
334
3
391
299
763
121
458
187
821

FIGURE 21

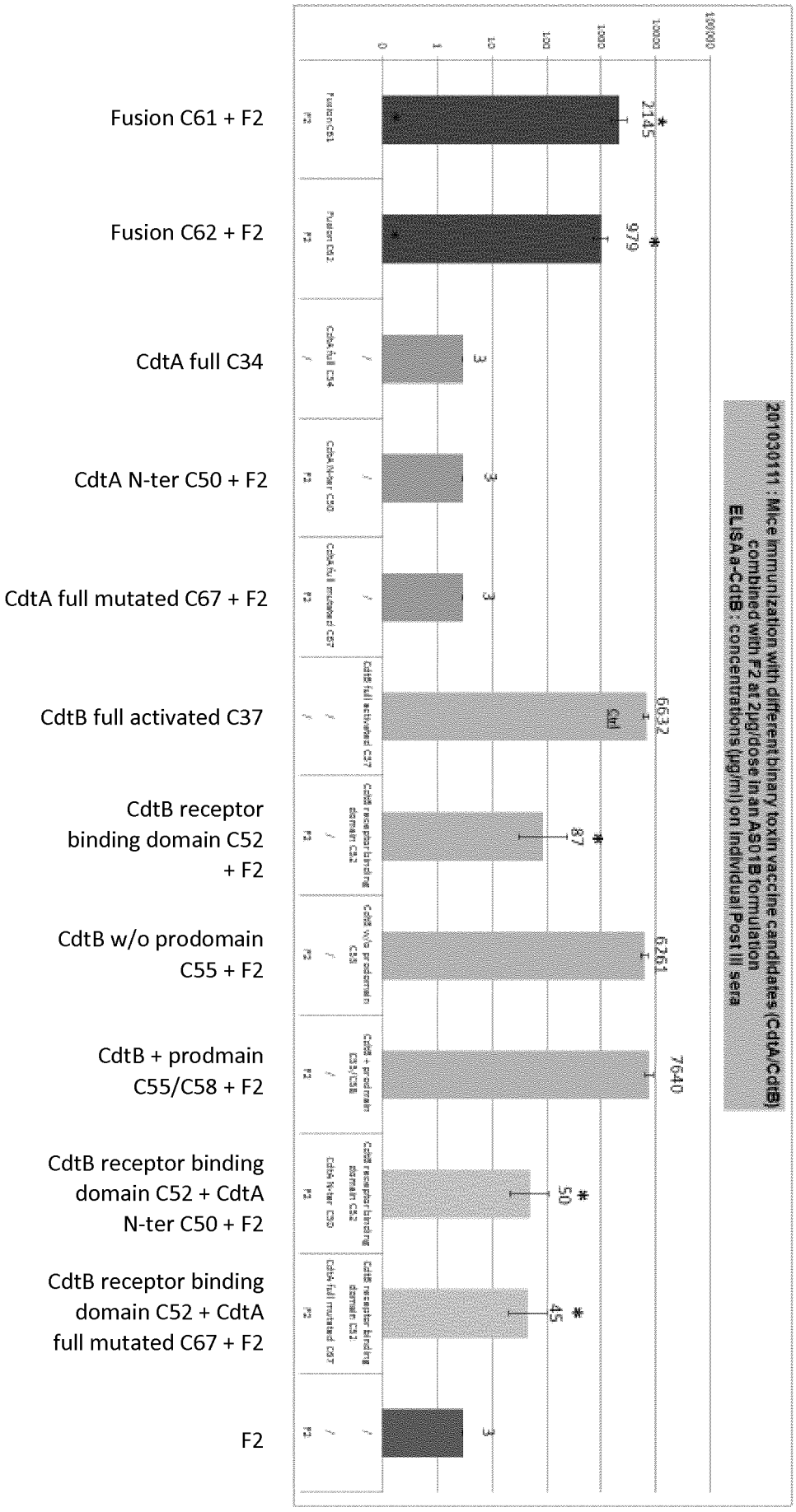

20100111 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 2µg/dose in an AS01B formulation
ELISA a-CdtB : concentrations (µg/ml) on individual Post III sera
100000
10000
1000
100
10
1
0
215
979
3
3
3
6632
87
6361
7640
50
45
3
Ctrl
Fusion C61 + F2
Fusion C62 + F2
CdtA full C34
CdtA N-ter C50 + F2
CdtA full mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA full mutated C67 + F2
F2

FIGURE 22

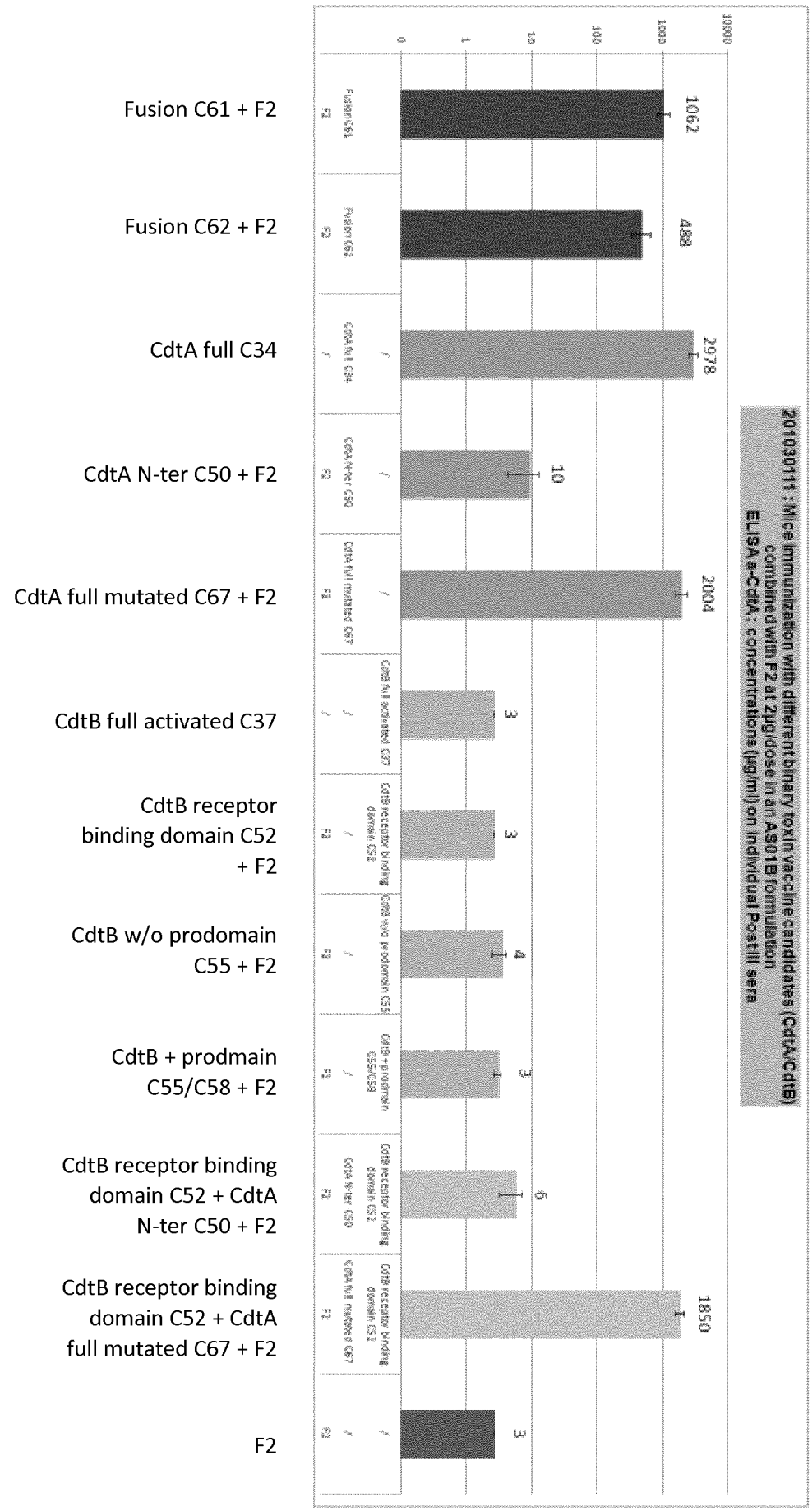

20130111 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 2µg/dose in an AS01B formulation
ELISA a-CdtA : concentrations (µg/ml) on individual Post III sera
10000
1000
100
10
1
0
1062
488
2978
10
2004
3
3
4
1
3
6
1850
3
Fusion C61 + F2
Fusion C62 + F2
CdtA full C34
CdtA N-ter C50 + F2
CdtA full mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA full mutated C67 + F2
F2

FIGURE 23

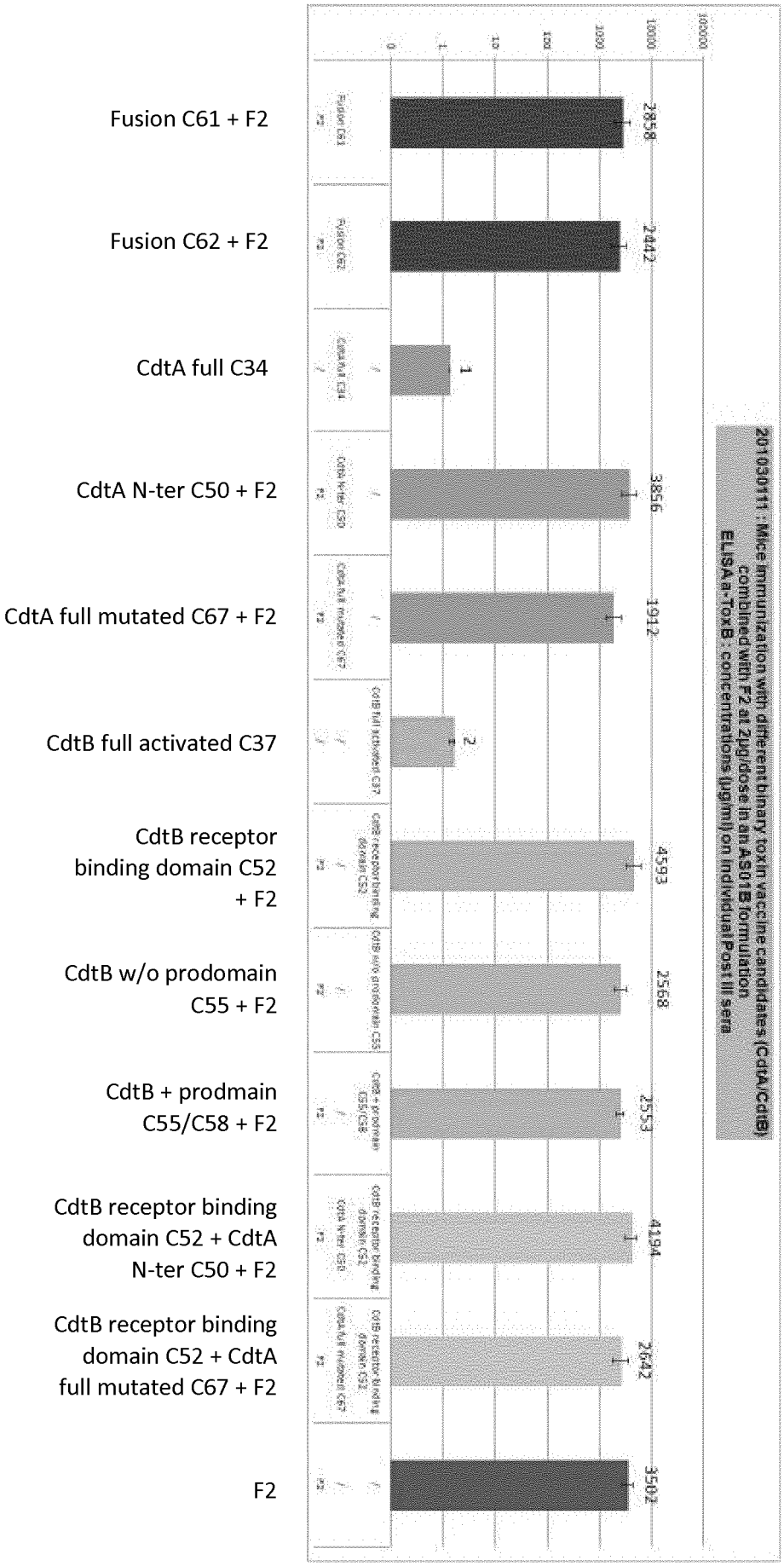
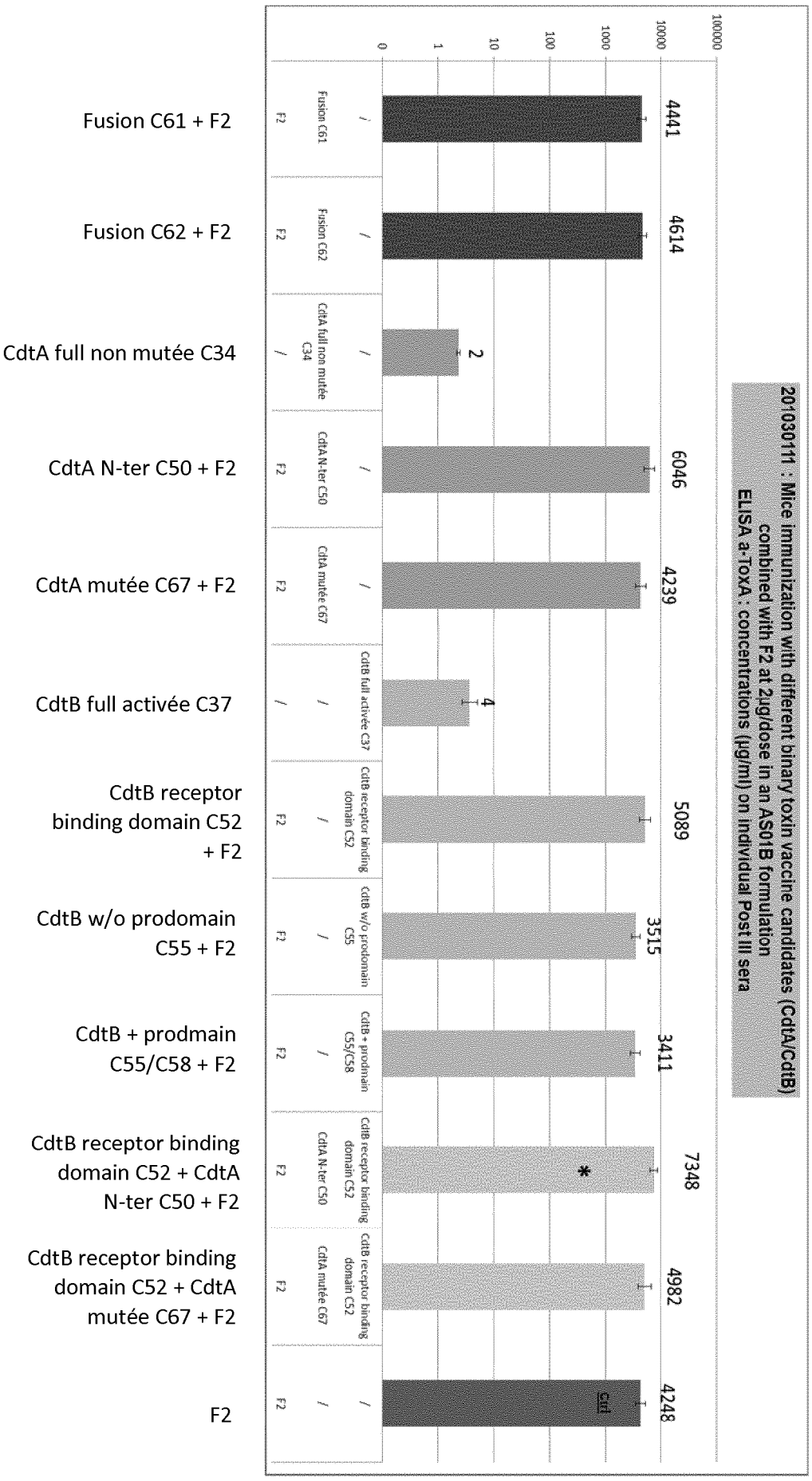

20130111 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 2µg/dose in an AS01B formulation
ELISA a-ToxB : concentrations (µg/ml) on individual Post III sera
100000
10000
1000
100
10
1
0
2858
2442
1
3856
1912
2
4593
2568
2553
4194
2642
3502
Fusion C61 + F2
Fusion C62 + F2
CdtA full C34
CdtA N-ter C50 + F2
CdtA full mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA full mutated C67 + F2
F2

FIGURE 24



Fusion C61 + F2

Fusion C62 + F2

CdtA full non mutée C34

CdtA N-ter C50 + F2

CdtA mutée C67 + F2

CdtB full activée C37

CdtB receptor binding domain C52 + F2

CdtB w/o prodomain C55 + F2

CdtB + prodmain C55/C58 + F2

CdtB receptor binding domain C52 + CdtA N-ter C50 + F2

CdtB receptor binding domain C52 + CdtA mutée C67 + F2

F2

FIGURE 25

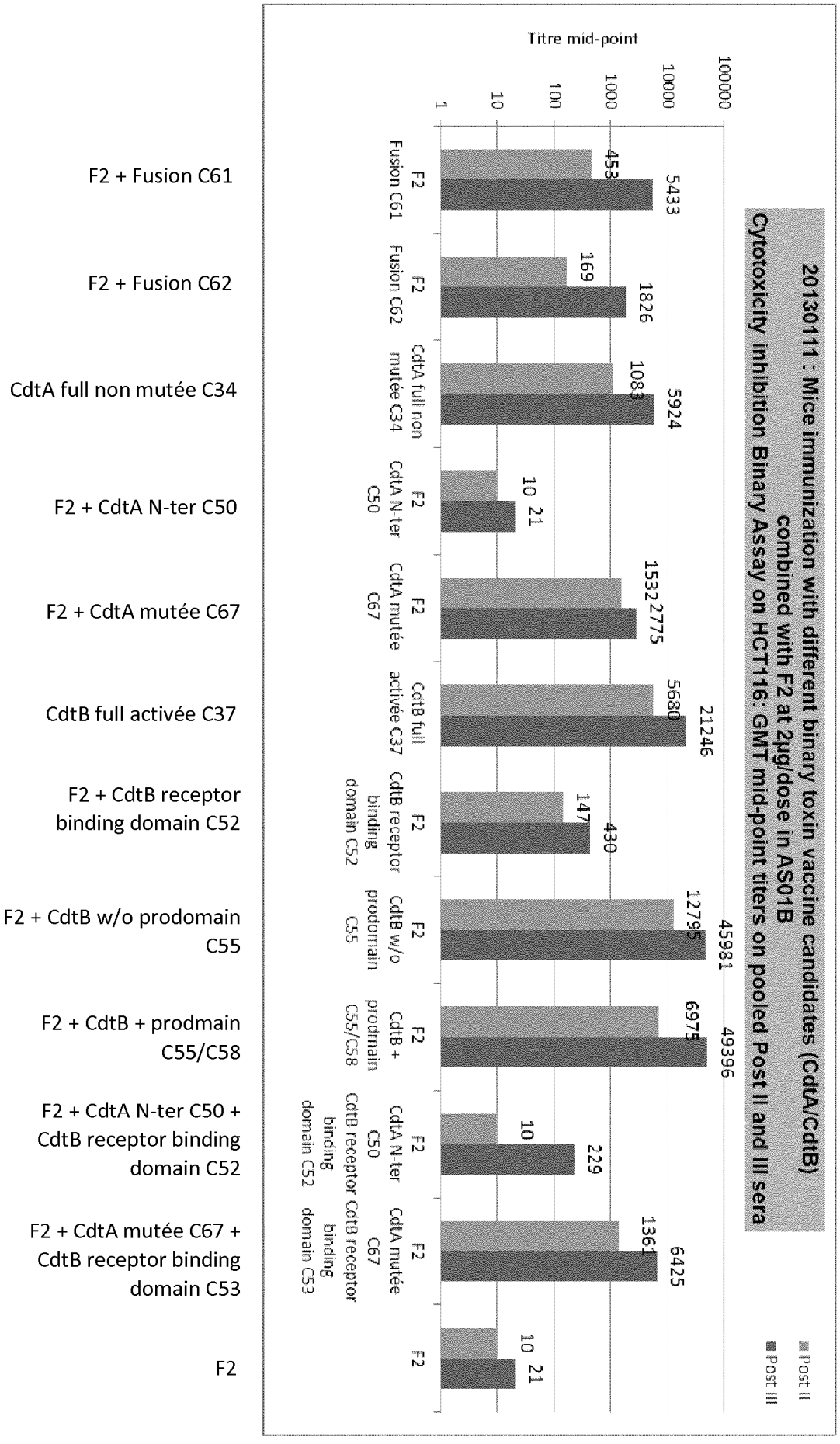

20130111 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 2µg/dose in AS01B
Cytotoxicity Inhibition Binary Assay on HCT116: GMT mid-point titers on pooled Post II and III sera
Titre mid-point
100000
10000
1000
100
10
1
Post II
Post III
453
5433
169
1826
1083
5924
10
21
1532
2775
5680
21246
147
430
12795
45981
6975
49396
10
229
1361
6425
10
21
F2
Fusion C61
F2
Fusion C62
CdtA full non mutée C34
CdtA N-ter C50
F2
CdtA mutée C67
F2
CdtB full activée C37
F2
CdtB receptor binding domain C52
F2
CdtB w/o prodomain C55
F2
CdtB + prodmain C55/C58
F2
CdtA N-ter C50
F2
CdtA mutée C67
F2
CdtB receptor binding domain C52
CdtB receptor binding domain C53
F2 + Fusion C61
F2 + Fusion C62
CdtA full non mutée C34
F2 + CdtA N-ter C50
F2 + CdtA mutée C67
CdtB full activée C37
F2 + CdtB receptor binding domain C52
F2 + CdtB w/o prodomain C55
F2 + CdtB + prodmain C55/C58
F2 + CdtA N-ter C50 + CdtB receptor binding domain C52
F2 + CdtA mutée C67 + CdtB receptor binding domain C53
F2

FIGURE 26

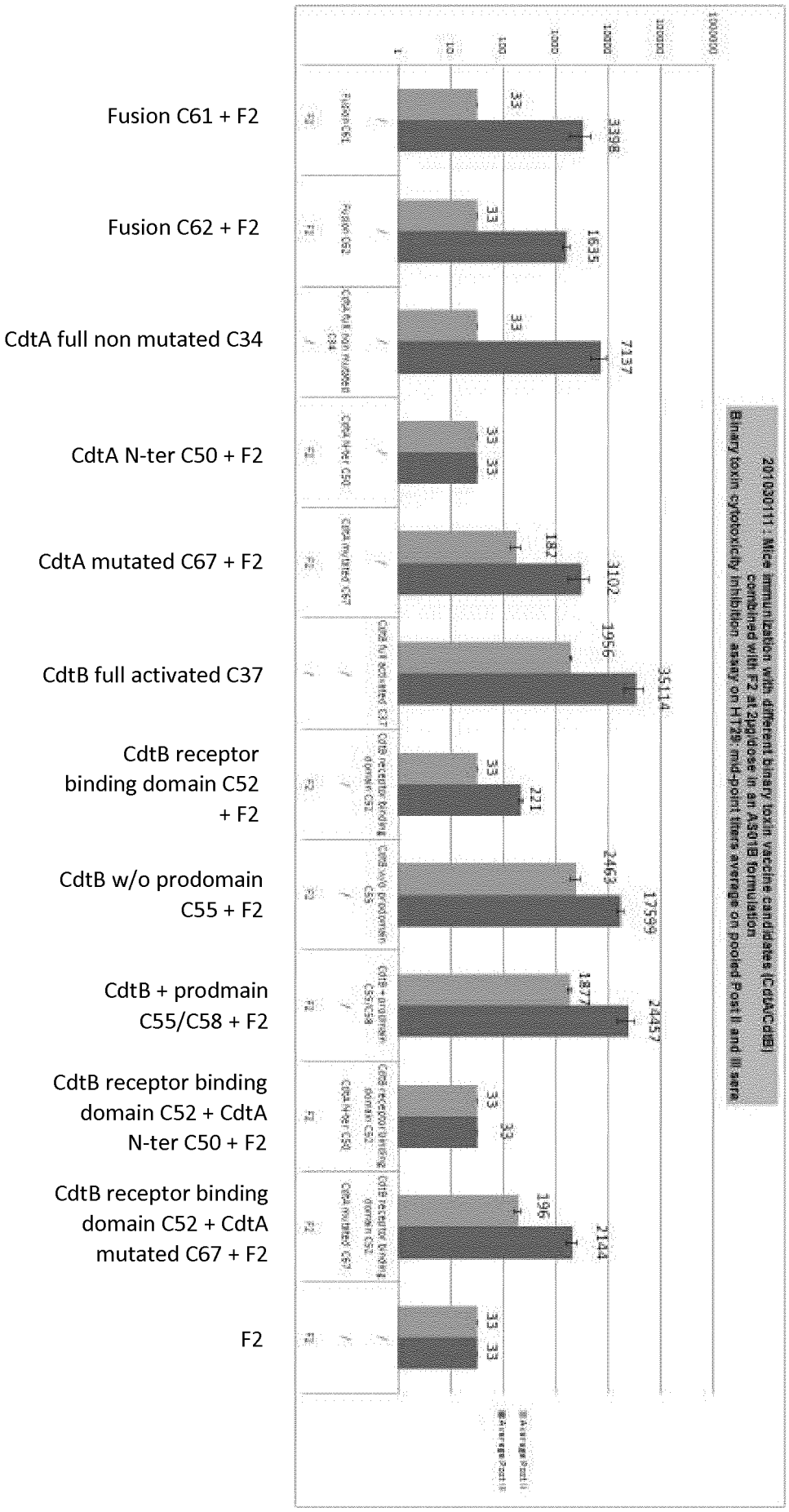

20130111 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB)
combined with F2 at 2µg/dose in an AS01B formulation
Binary toxin cytotoxicity inhibition assay on HT29: mid-point titers average on pooled Post II and III sera
Fusion C61 + F2
Fusion C62 + F2
CdtA full non mutated C34
CdtA N-ter C50 + F2
CdtA mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA mutated C67 + F2
F2
1
10
100
1000
10000
100000
1000000
33
3398
33
1635
33
7137
33
33
182
3102
1956
35114
33
221
2463
17599
1877
24457
33
33
196
2144
33
33

FIGURE 27

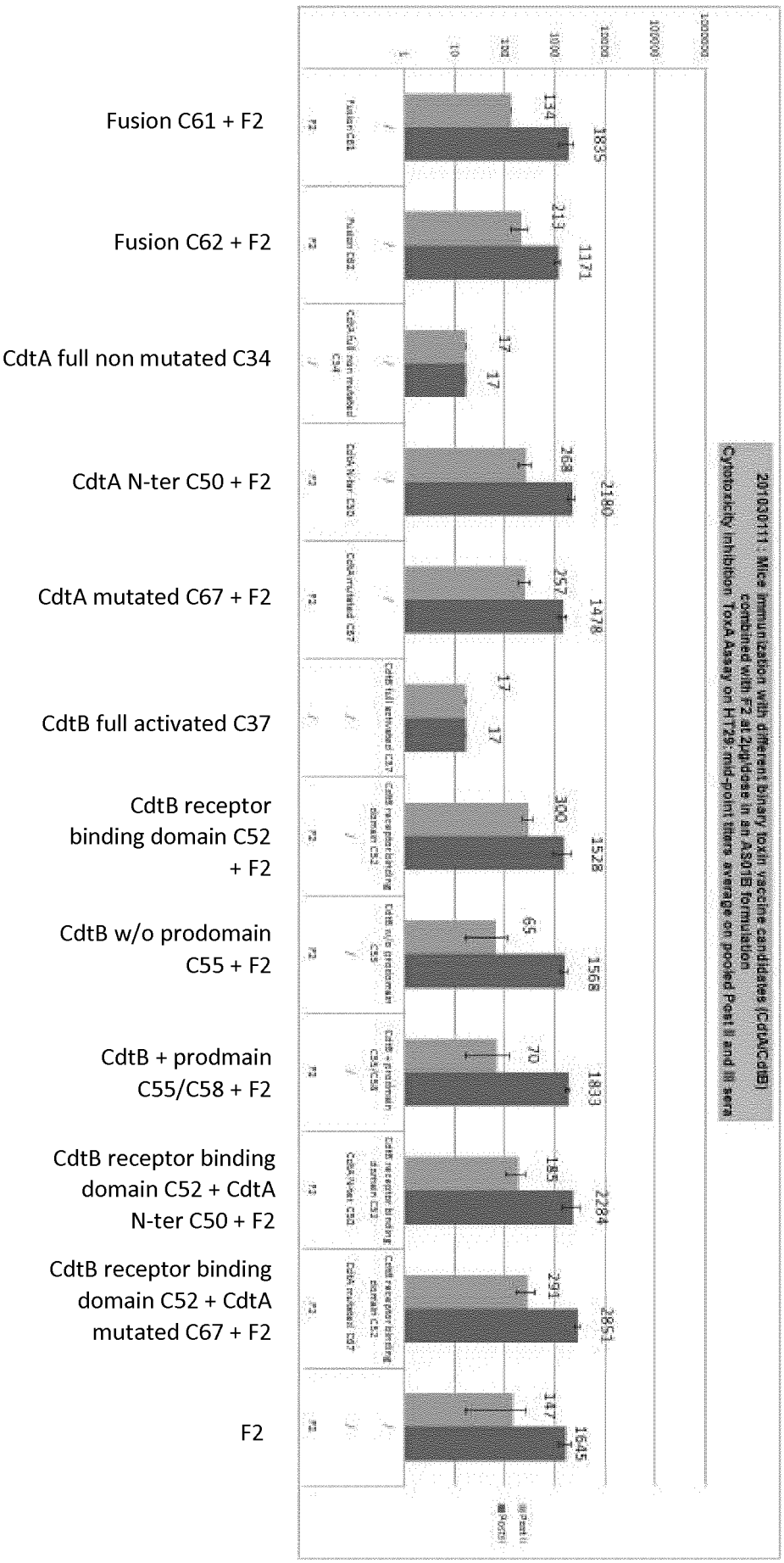

20130111 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB)
combined with F2 at 2µg dose in an AS01B formulation
Cytotoxicity inhibition ToxA Assay on HT29; mid-point titers average on pooled Post II and III sera
Fusion C61 + F2
Fusion C62 + F2
CdtA full non mutated C34
CdtA N-ter C50 + F2
CdtA mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA mutated C67 + F2
F2
134
1835
213
1171
17
17
268
2180
257
1478
17
17
300
1528
65
1568
70
1833
185
2284
291
2851
147
1645

FIGURE 28

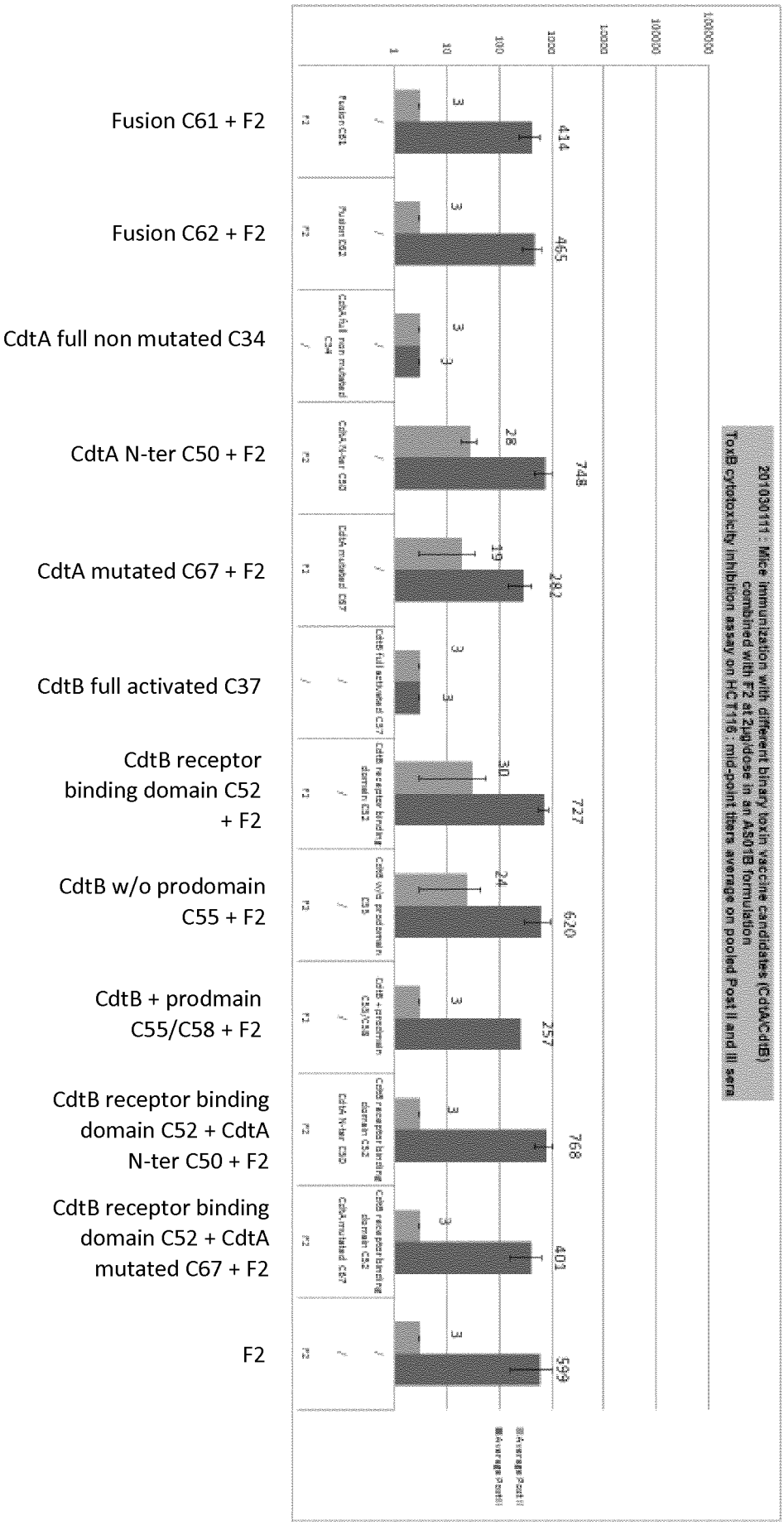

20130111 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 2µg/dose in an AS01B formulation
ToxB cytotoxicity inhibition assay on HCT116 : mid-point titers average on pooled Post II and III sera
1000000
100000
10000
1000
100
10
1
3
3
3
3
28
748
19
282
3
3
30
727
24
620
3
257
3
768
3
401
3
599
Fusion C61 + F2
Fusion C62 + F2
CdtA full non mutated C34
CdtA N-ter C50 + F2
CdtA mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA mutated C67 + F2
F2

FIGURE 29

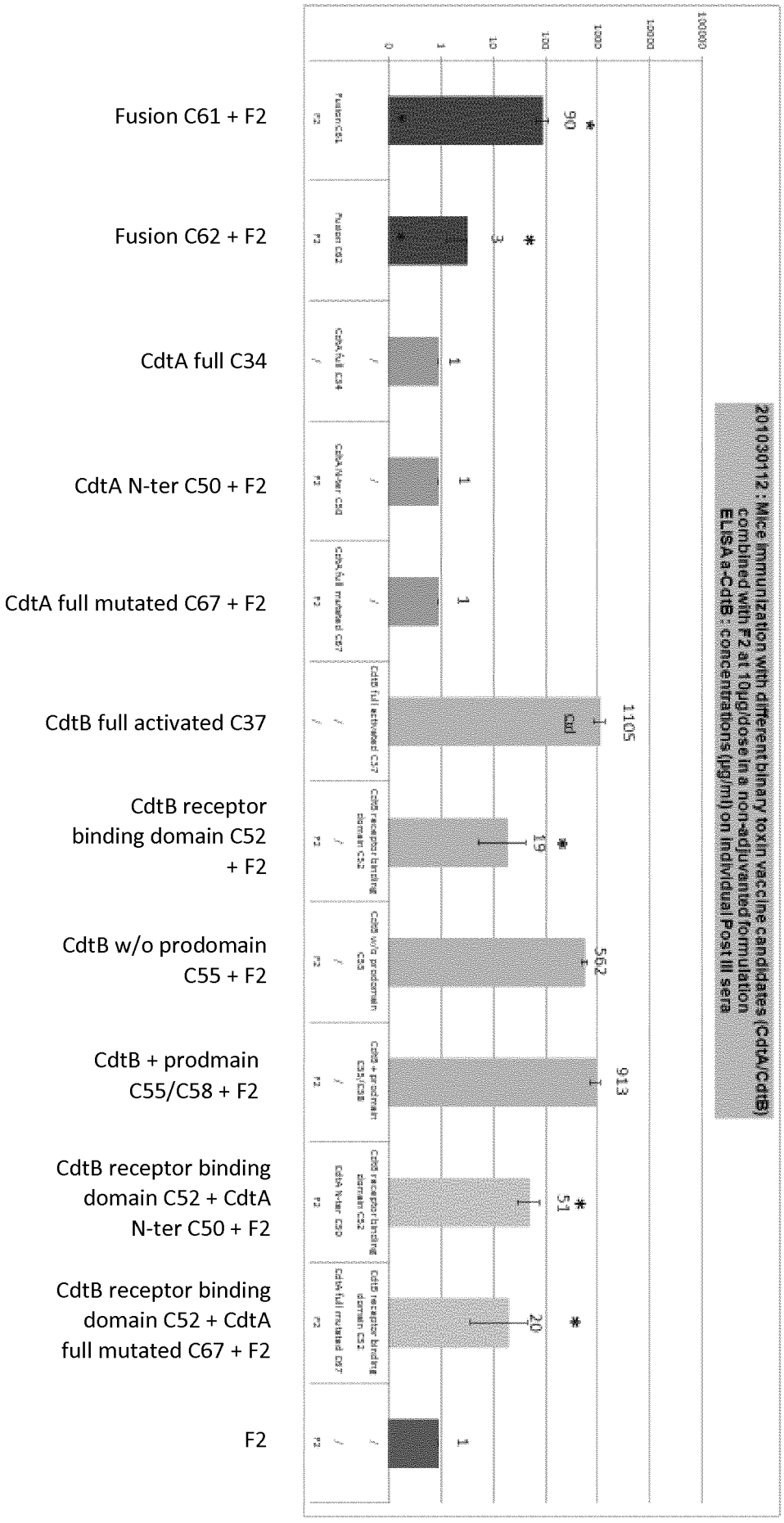

20130112 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 10µg/dose in a non-adjuvanted formulation
ELISA a-CdtB : concentrations (µg/ml) on individual Post III sera
100000
10000
1000
100
10
1
0
90
3
1
1
1
1105
19
562
913
51
20
1
Fusion C61 + F2
Fusion C62 + F2
CdtA full C34
CdtA N-ter C50 + F2
CdtA full mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA full mutated C67 + F2
F2

FIGURE 30

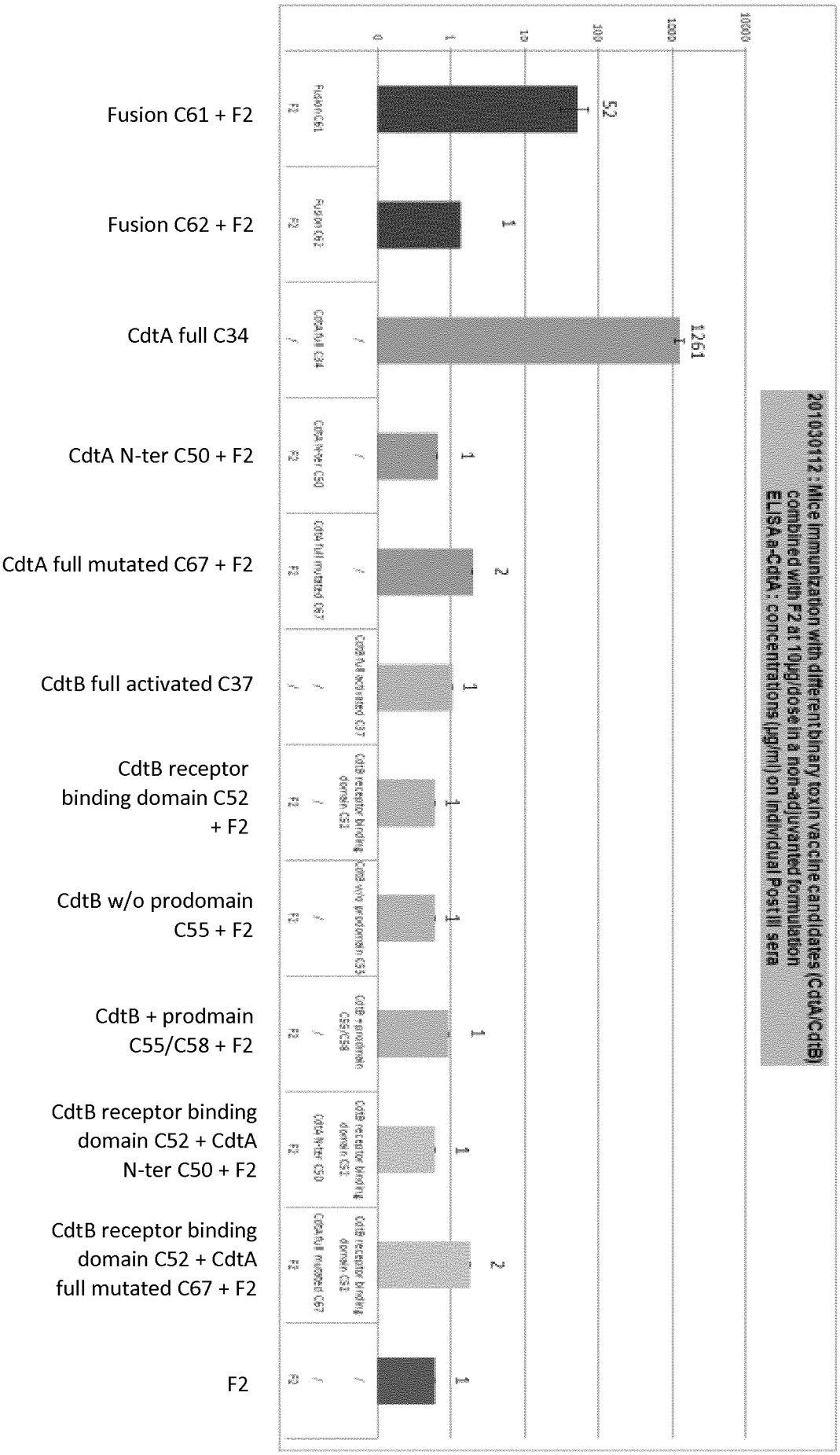

20130112 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 10µg/dose in a non-adjuvanted formulation
ELISA a-CdtA : concentrations (µg/ml) on individual Post III sera
0
1
15
100
1000
10000
52
1
1261
1
1
1
2
1
1
1
1
1
1
1
1
1
1
2
1
Fusion C61 + F2
Fusion C62 + F2
CdtA full C34
CdtA N-ter C50 + F2
CdtA full mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA full mutated C67 + F2
F2

FIGURE 31

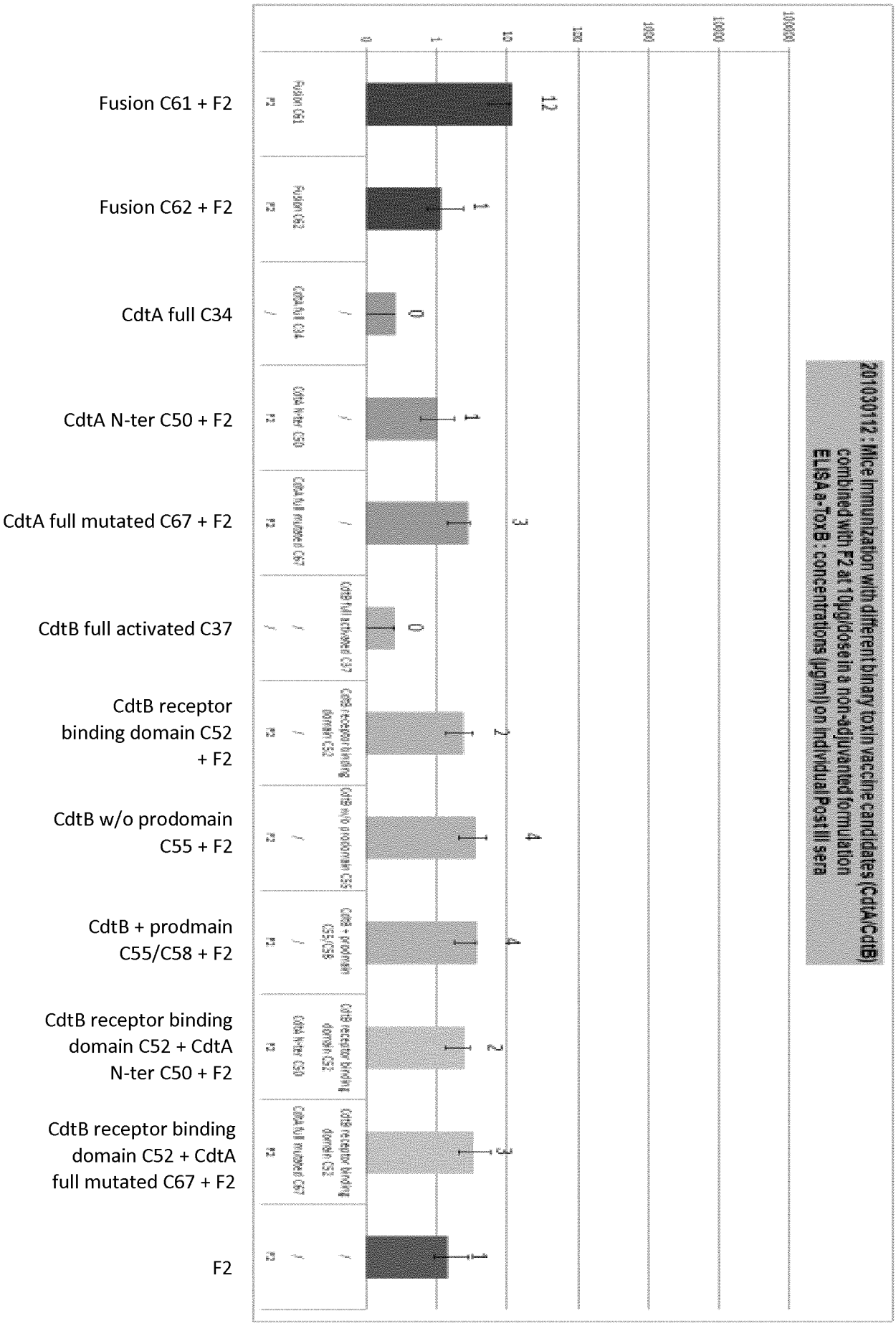

20130112 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 10µg/dose in a non-adjuvanted formulation
ELISA α-ToxB concentrations (µg/ml) on individual Post III sera
0
1
15
100
1000
10000
12
1
1
0
1
1
3
0
2
4
4
2
3
1
Fusion C61 + F2
Fusion C62 + F2
CdtA full C34
CdtA N-ter C50 + F2
CdtA full mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA full mutated C67 + F2
F2

FIGURE 32

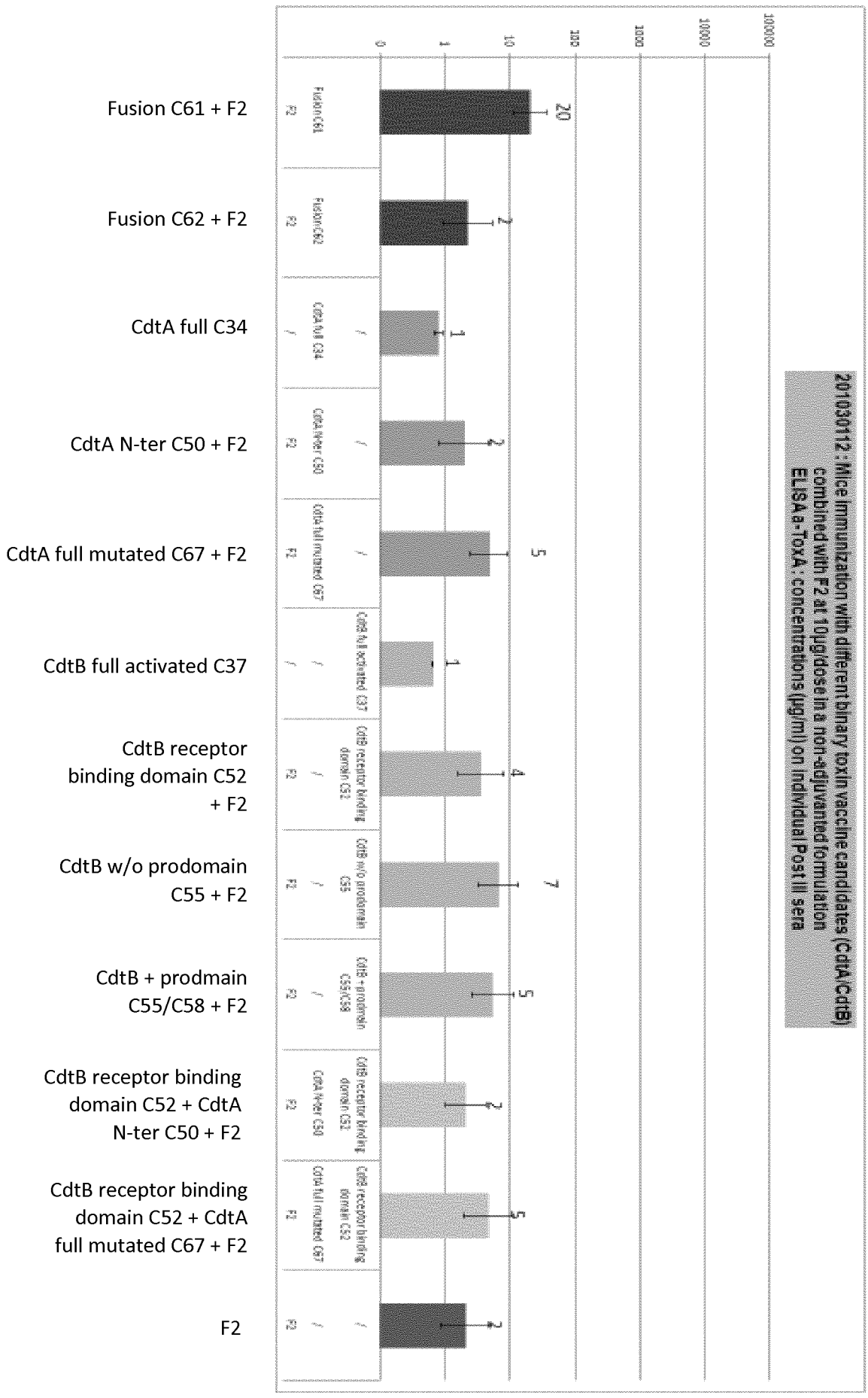

20130112 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 10µg/dose in a non-adjuvanted formulation
ELISA a-ToxA ; concentrations (µg/ml) on individual Post III sera
0
1
10
100
1000
10000
100000
Fusion C61 + F2
Fusion C62 + F2
CdtA full C34
CdtA N-ter C50 + F2
CdtA full mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA full mutated C67 + F2
F2

FIGURE 33

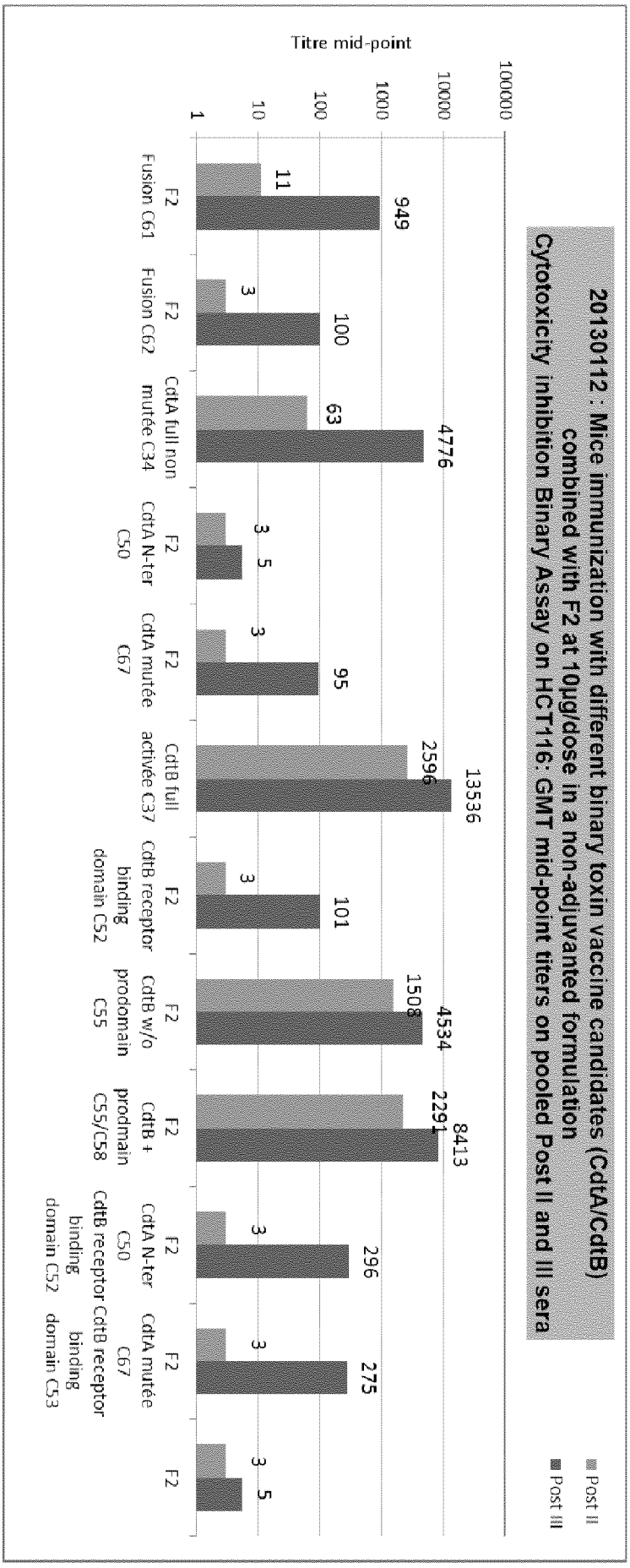

20130112 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 10µg/dose in a non-adjuvanted formulation
Cytotoxicity Inhibition Binary Assay on HCT116: GMT mid-point titers on pooled Post II and III sera
Titre mid-point
100000
10000
1000
100
10
1
Post II
Post III
11
949
3
100
63
4776
3
5
3
95
2596
13536
3
101
1508
4534
2291
8413
3
296
3
275
3
5
F2
F2 + Fusion C61
F2 + Fusion C62
CdtA full non mutée C34
F2 + CdtA N-ter C50
F2 + CdtA mutée C67
CdtB full activée C37
F2 + CdtB receptor binding domain C52
F2 + CdtB w/o prodomain C55
F2 + CdtB + prodmain C55/C58
F2 + CdtA N-ter C50 CdtB receptor binding domain C52
F2 + CdtA mutée C67 CdtB receptor binding domain C53
F2

FIGURE 34

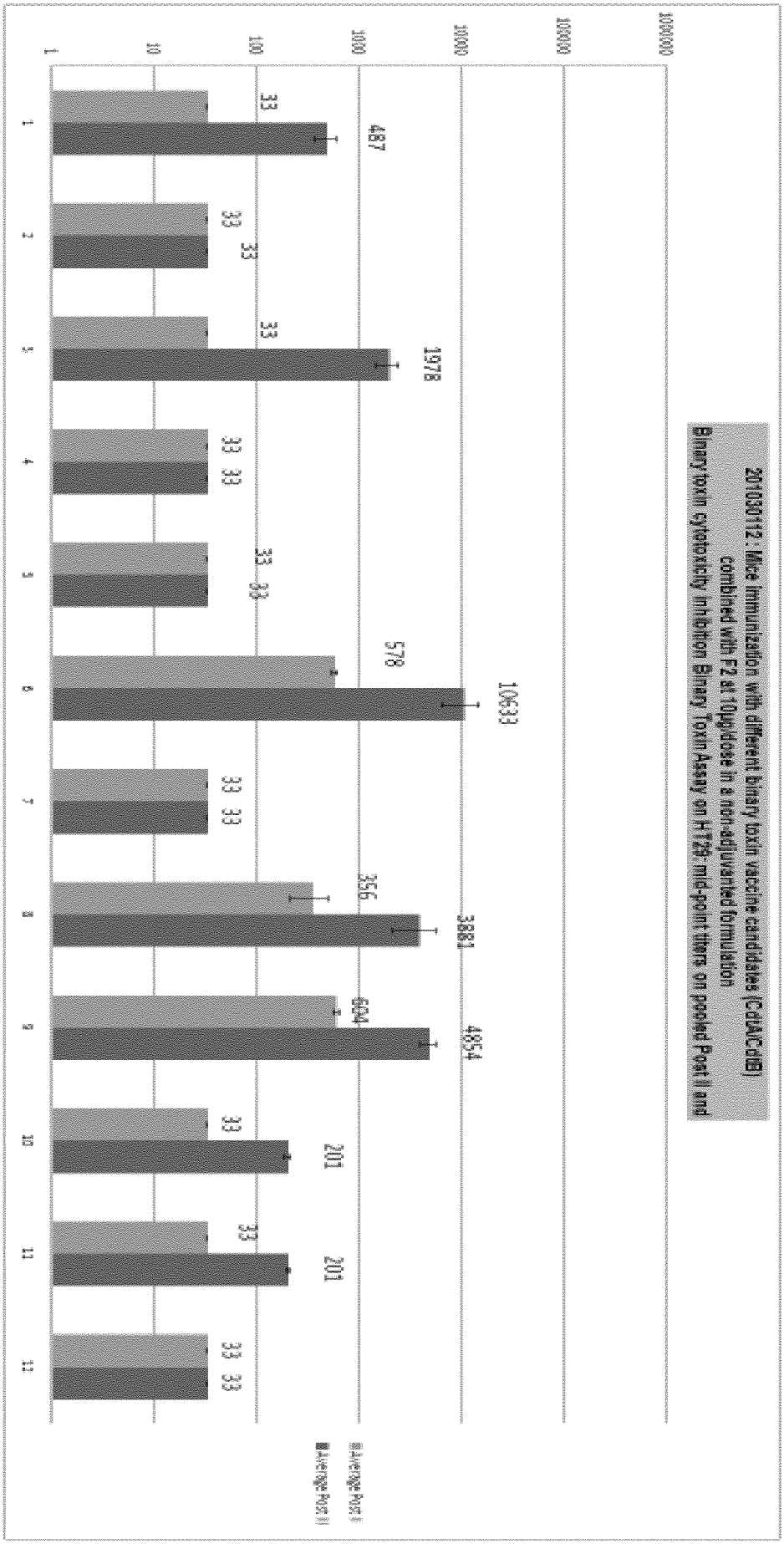

20103012 : Mice immunization with different binary toxin vaccine candidates (CdtAC cdtB)
combined with F2 at 10µg/dose in a non-adjuvanted formulation
Binary toxin cytotoxicity inhibition Binary Toxin Assay on HT29: mid-point titers on pooled Post II and
100000
10000
1000
100
10
1
33
487
33
33
33
1978
33
33
33
33
33
578
10633
33
33
356
3881
604
4854
33
201
33
201
33
33
1
2
3
4
5
6
7
8
9
10
11
12

FIGURE 35

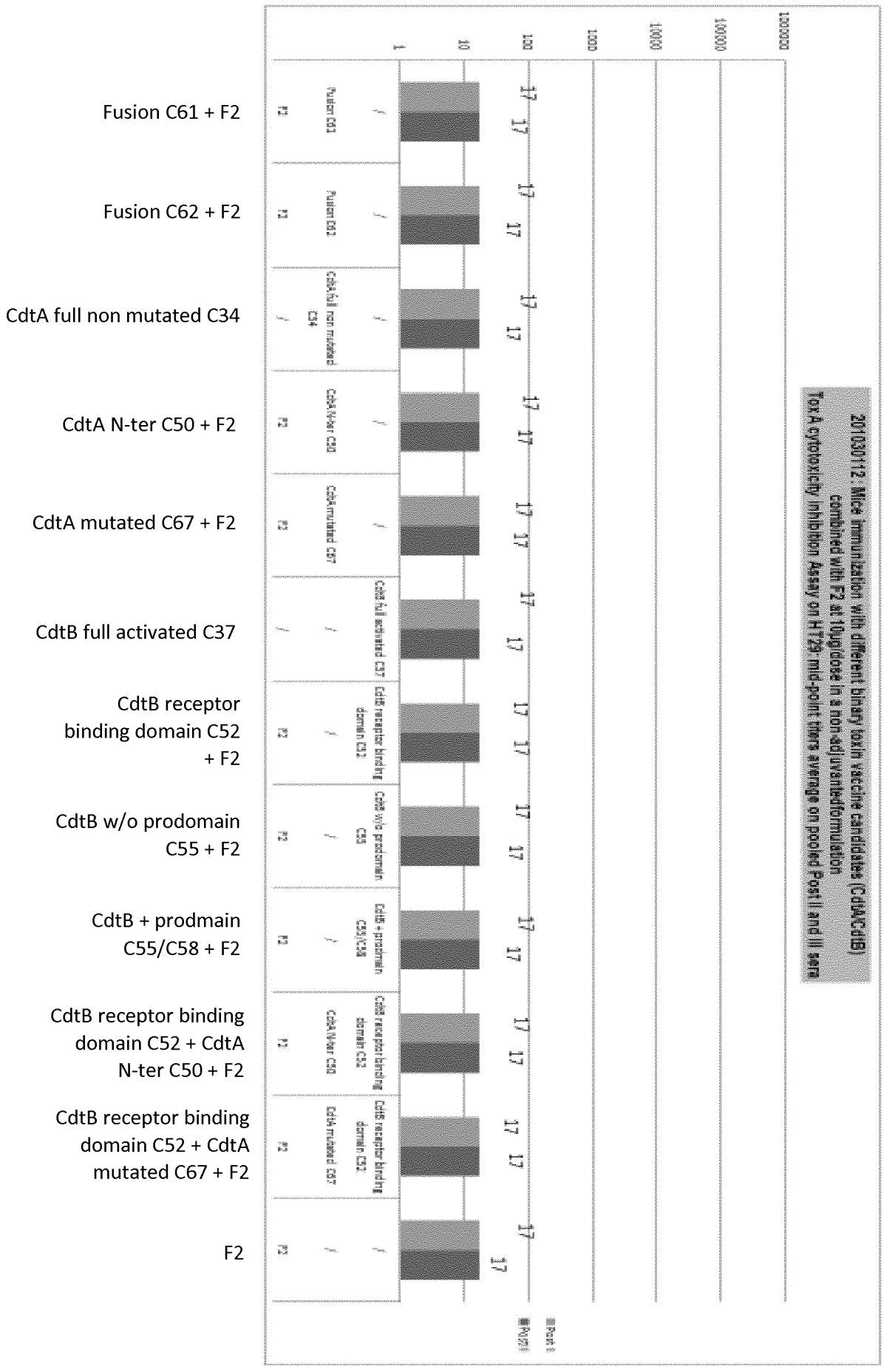
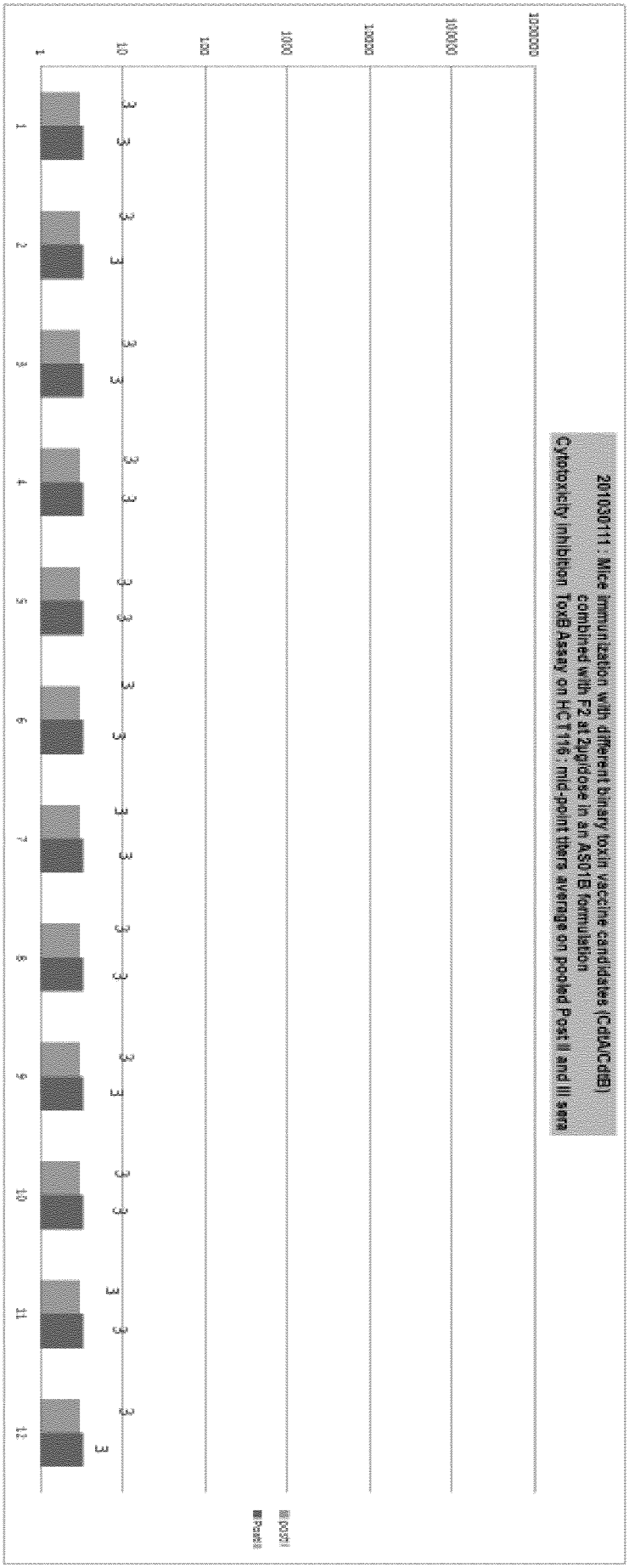

20130112 Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 10µg/dose in a non-adjuvanted formulation
Tox A cytotoxicity inhibition Assay on HT29 mid-point titers average on pooled Post II and III sera
1000000
100000
10000
1000
100
10
1
Fusion C61 + F2
Fusion C62 + F2
CdtA full non mutated C34
CdtA N-ter C50 + F2
CdtA mutated C67 + F2
CdtB full activated C37
CdtB receptor binding domain C52 + F2
CdtB w/o prodomain C55 + F2
CdtB + prodmain C55/C58 + F2
CdtB receptor binding domain C52 + CdtA N-ter C50 + F2
CdtB receptor binding domain C52 + CdtA mutated C67 + F2
F2

FIGURE 36


20100111 : Mice immunization with different binary toxin vaccine candidates (CdtA/CdtB) combined with F2 at 2µg/dose in an AS01B formulation
Cytotoxicity Inhibition ToxB Assay on HCT116 : mid-point titers average on pooled Post II and III sera
1000000
100000
10000
1000
100
10
1
Post II
Post III