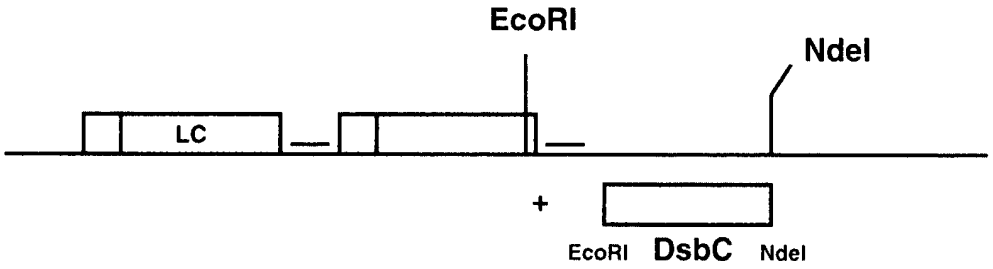
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Figure 1



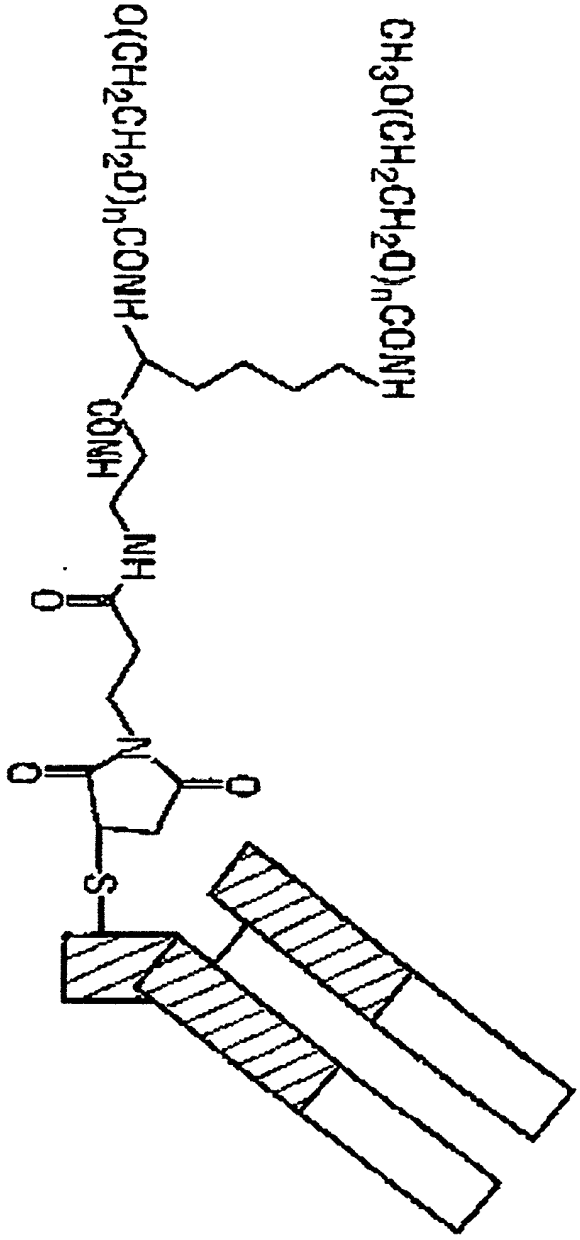
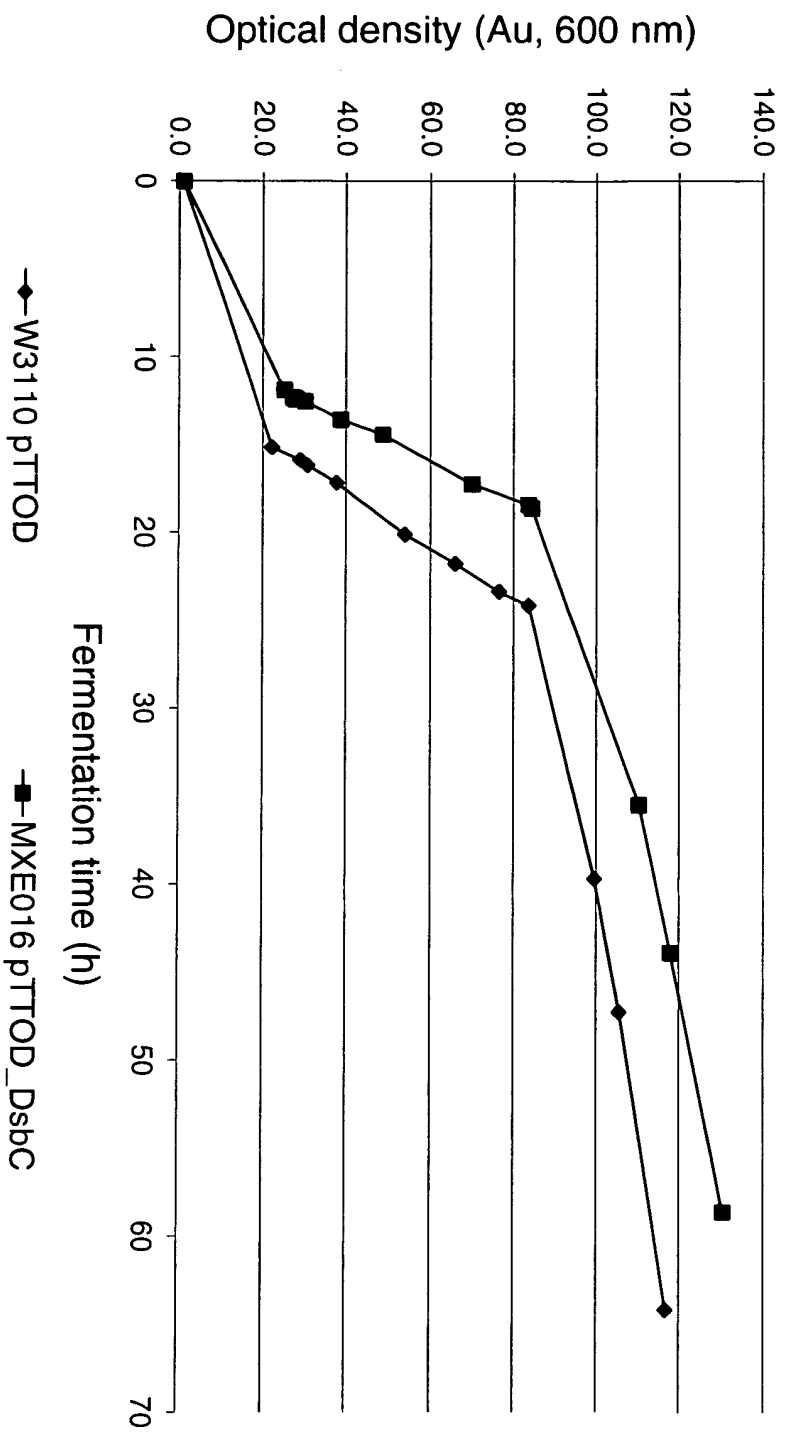


Figure 2

Figure 3


Optical density (Au, 600 nm)
0.0
20.0
40.0
60.0
80.0
100.0
120.0
140.0
0
10
20
30
40
50
60
70
Fermentation time (h)
W3110 pTTOD
MXE016 pTTOD_DsbC

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Figure 4

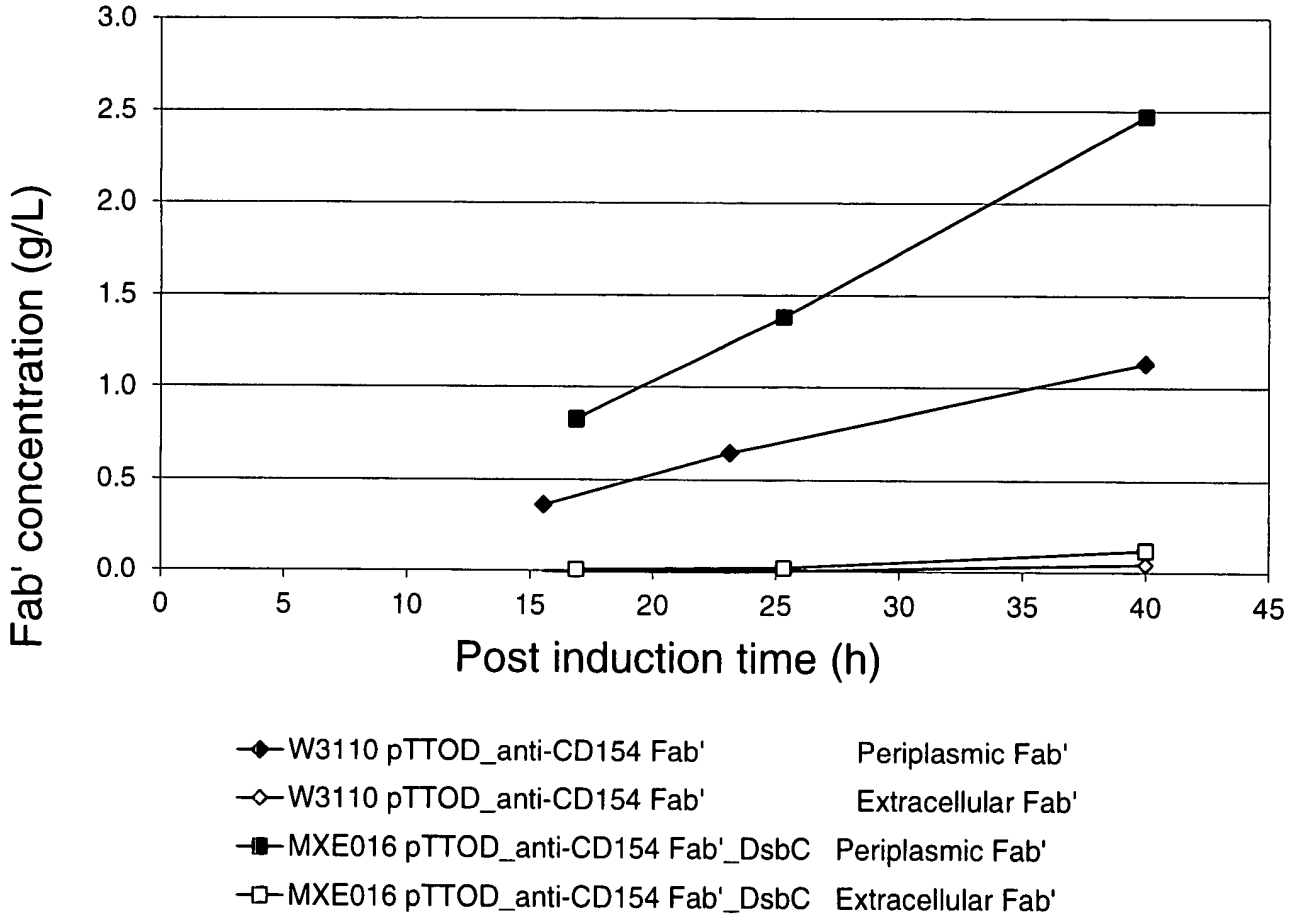


Figure 5

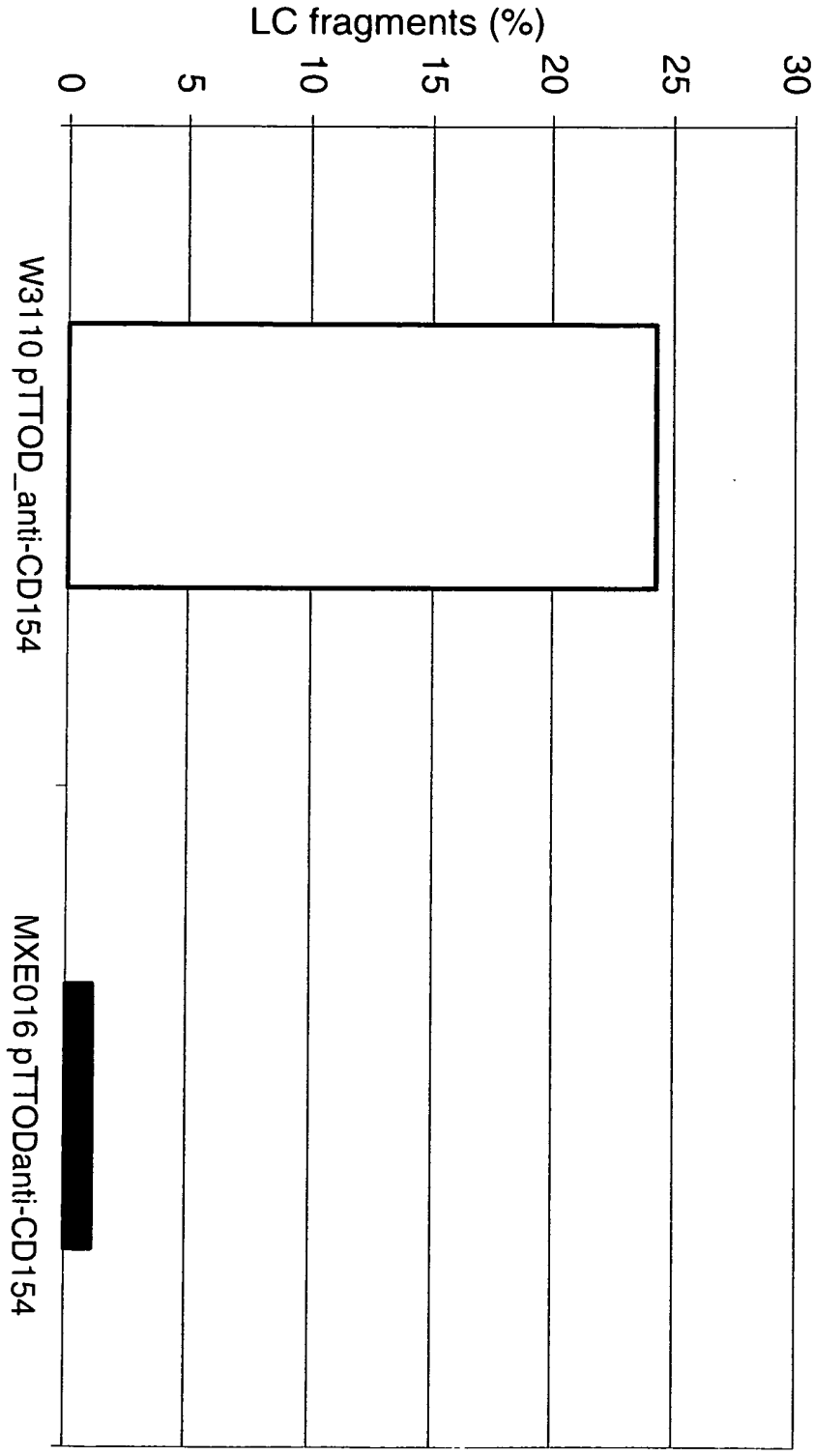

LC fragments (%)
0
5
10
15
20
25
30
W3110 pTTOD_anti-CD154
MXE016 pTTODanti-CD154

Figure 6

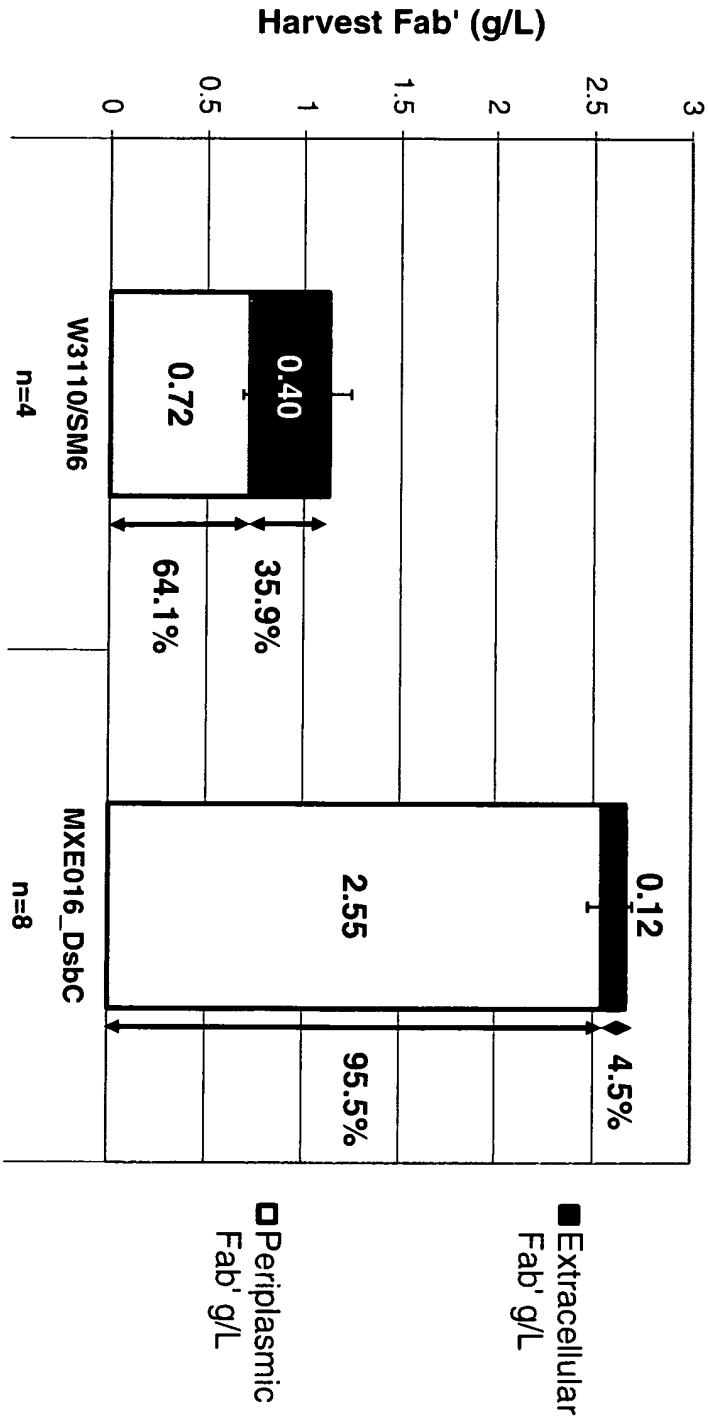

Harvest Fab' (g/L)
0
0.5
1
1.5
2
2.5
3
W3110/SM6
n=4
0.72
0.40
64.1%
35.9%
MXE016_DsbC
n=8
2.55
0.12
95.5%
4.5%
Periplasmic Fab' g/L
Extracellular Fab' g/L

Figure 7

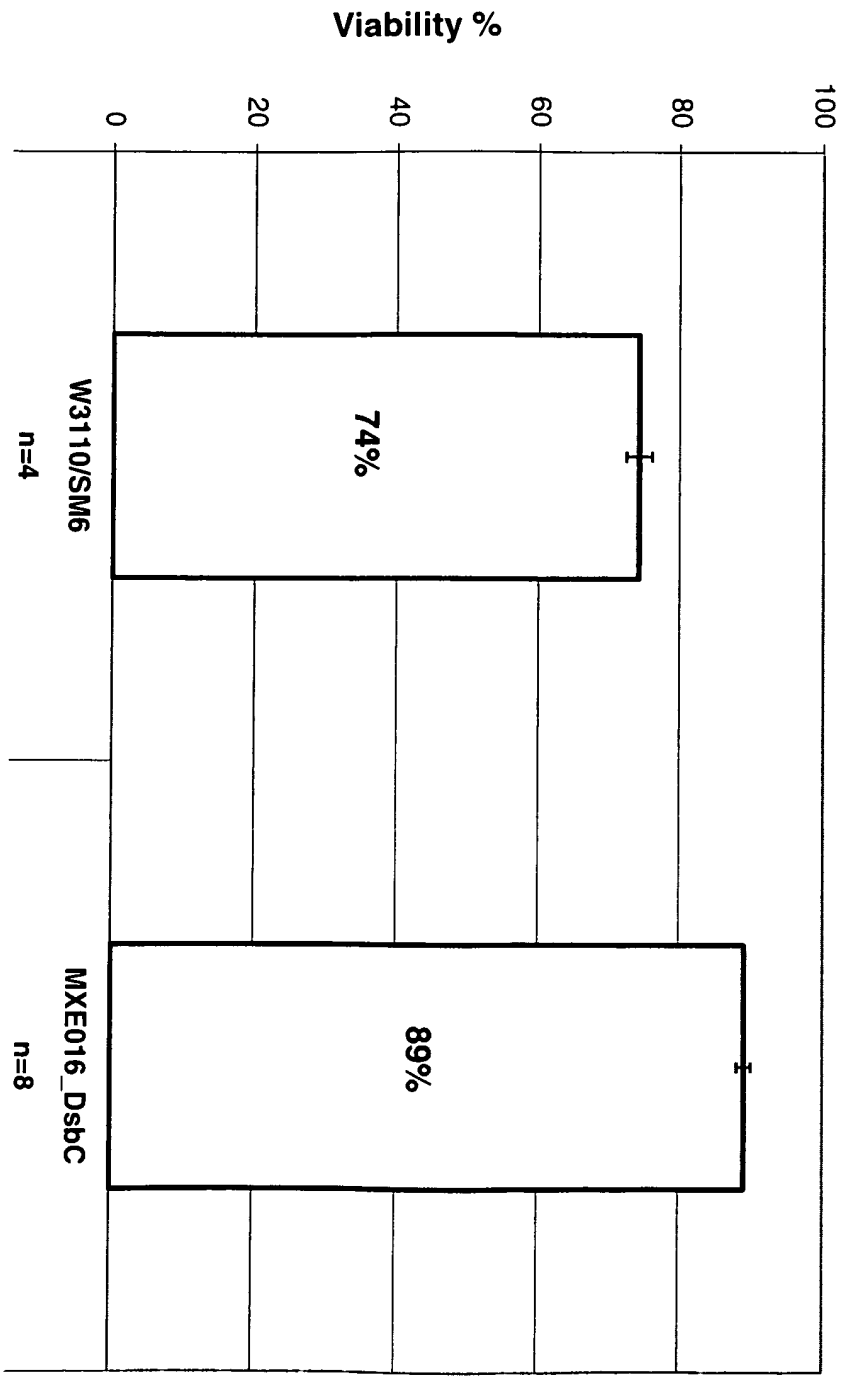
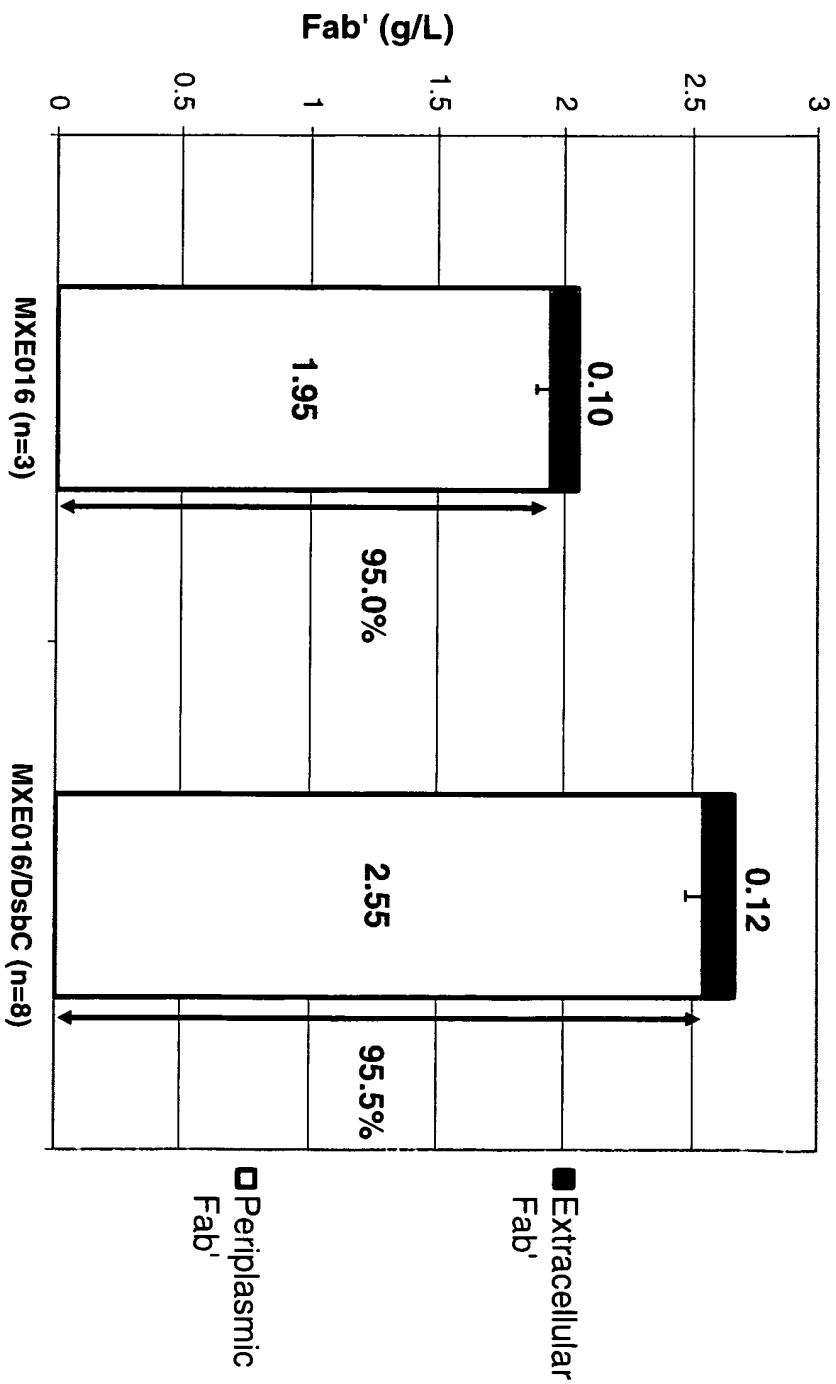


Figure 8


Fab' (g/L)
0
0.5
1
1.5
2
2.5
3
MXE016 (n=3)
1.95
0.10
95.0%
MXE016/DsbC (n=8)
2.55
0.12
95.5%
Extracellular Fab'
Periplasmic Fab'

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Figure 9

Wild type ptr (protease III) 5'.

```
  *   M   P   R   S   T   W   F   K   A   L   L   L   L   V
TGA ATG CCC CGC AGC ACC TGG TTC AAA GCA TTA TTG TTG TTA GTT

  A   L   W   A   P   L   S
GCC CTT TGG GCA CCC TTA AGT
```

Mutated Δ ptr (protease III) 5'.

```
    EcoR I
  ~~~~~~~~
  *   I   P   R   S   T   W   F   K   A   L   L   L   L   V
TGA ATT CCC CGC AGC ACC TGG TTC AAA GCA TTA TTG TTG TTA GTT

                        Ase I
                      ~~~~~~~~
  A   L   W   A   H   *   C
GCC CTT TGG GCA CAT TAA TGT
```

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Figure 10

Wild type Tsp 5'.

```
 M   N   M   F   F   R   L   T   A   L   A   G   L   L   A
ATG AAC ATG TTT TTT AGG CTT ACC GCG TTA GCT GGC CTG CTT GCA

 I   A   G   Q   T   F   A
ATA GCA GGC CAG ACC TTC GCT
```

Mutated Δ Tsp 5'.

```
        EcoR I
        ~~~~~~~~
 M   N   S   F   L   G   L   P   R   *   L   A   C   L   Q
ATG AAT TCG TTT TTA GGC TTA CCG CGT TAG CTG GCC TGC TTG CAA

                        Ase I
                        ~~~~~~~~
 *   Q   A   R   H   *   L
TAG CAG GCC AGA CAT TAA TTG
```

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Figure 11

Wild type DegP

202	D	A	A	I	N	R	G	N	**S**	G	G
949	GAT	GCA	GCG	ATC	AAC	CGT	GGT	AAC	***TCC***	GGT	GGT

Mutated DegP S210A

Ase I

202	D	A	A	I	N	R	G	N	**A**	G	G
949	GAT	GCA	GCG	***ATT***	***AAT***	CGT	GGT	AAC	***GCC***	GGT	GGT