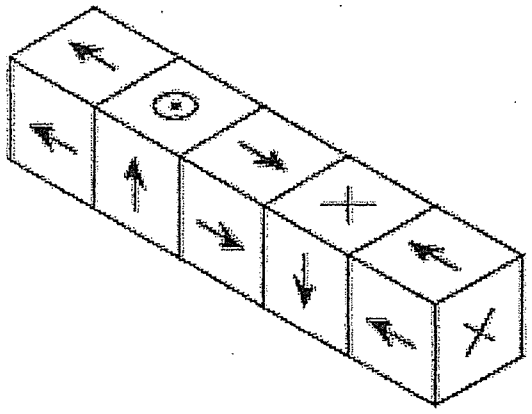
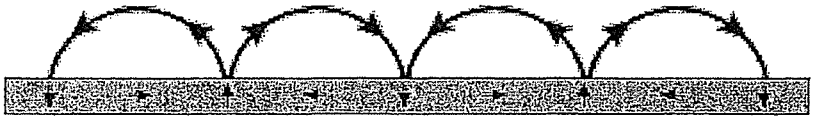
Figure 1

A



B



C

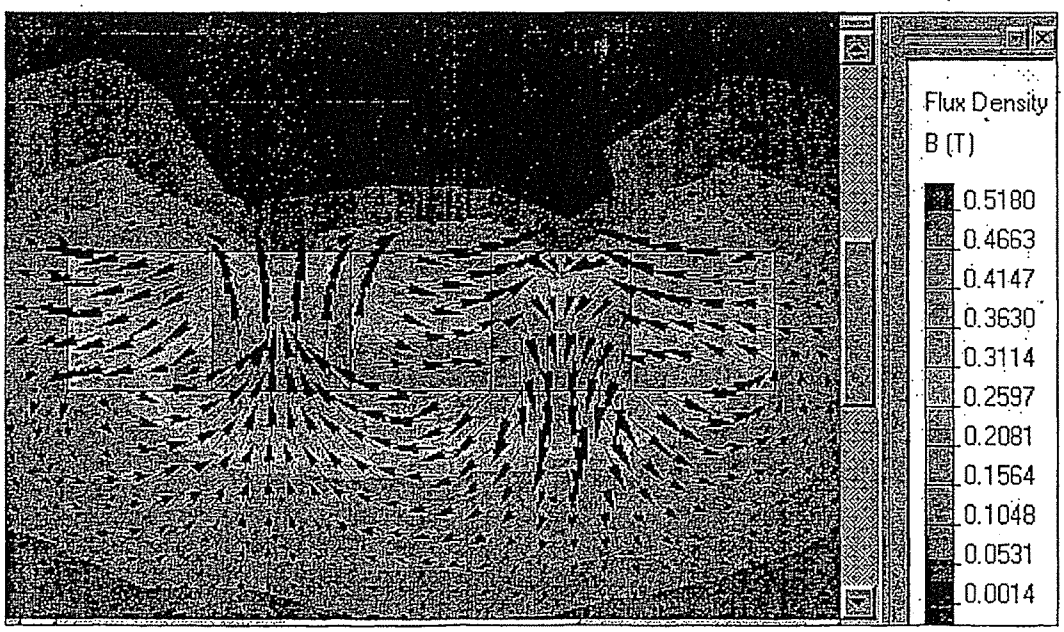

Flux Density
B (T)
0.5180
0.4663
0.4147
0.3630
0.3114
0.2597
0.2081
0.1564
0.1048
0.0531
0.0014

Figure 2

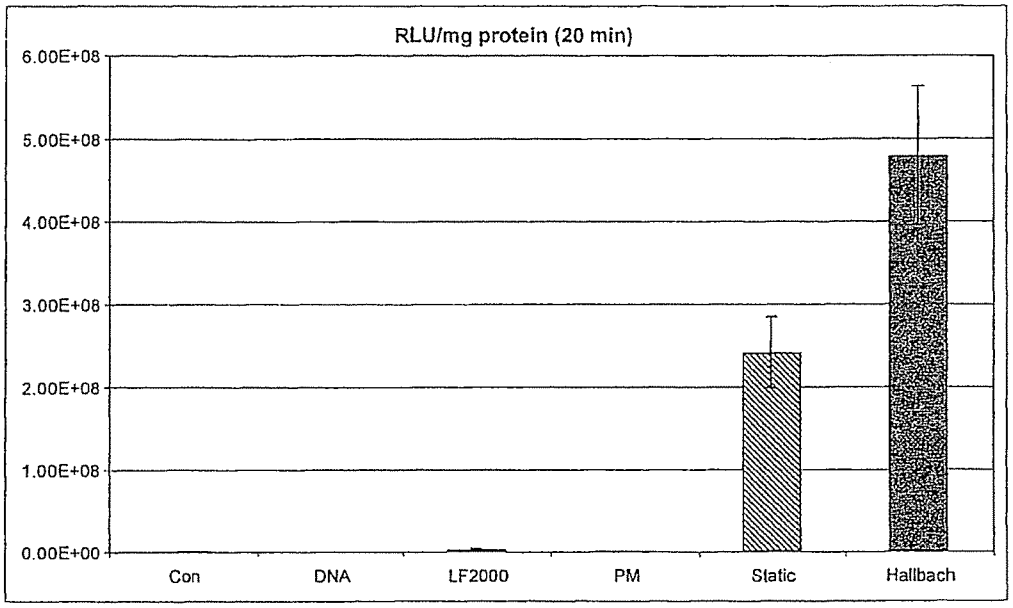

RLU/mg protein (20 min)
6.00E+08
5.00E+08
4.00E+08
3.00E+08
2.00E+08
1.00E+08
0.00E+00
Con
DNA
LF2000
PM
Static
Hallbach

Figure 3

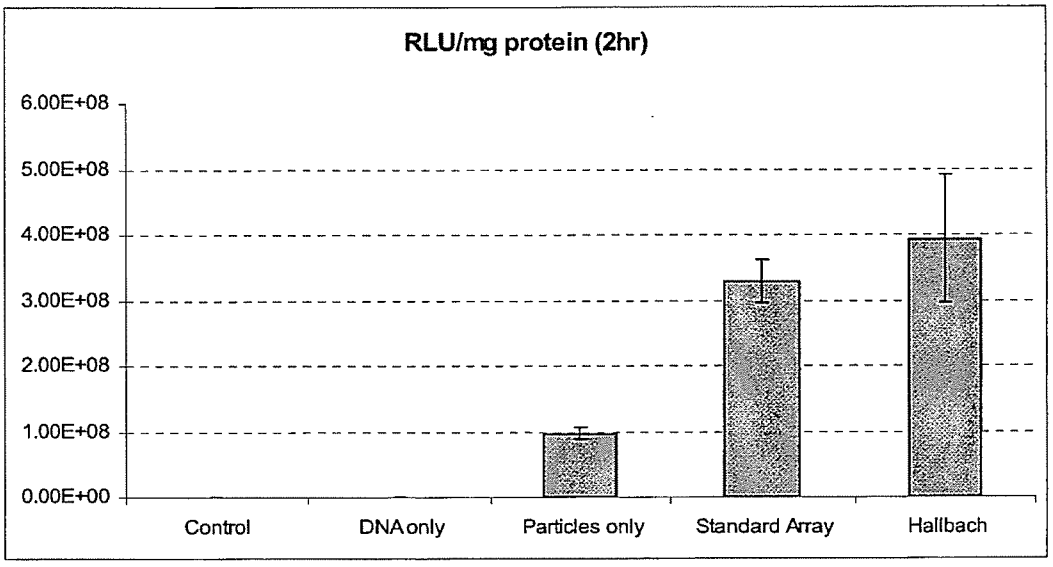
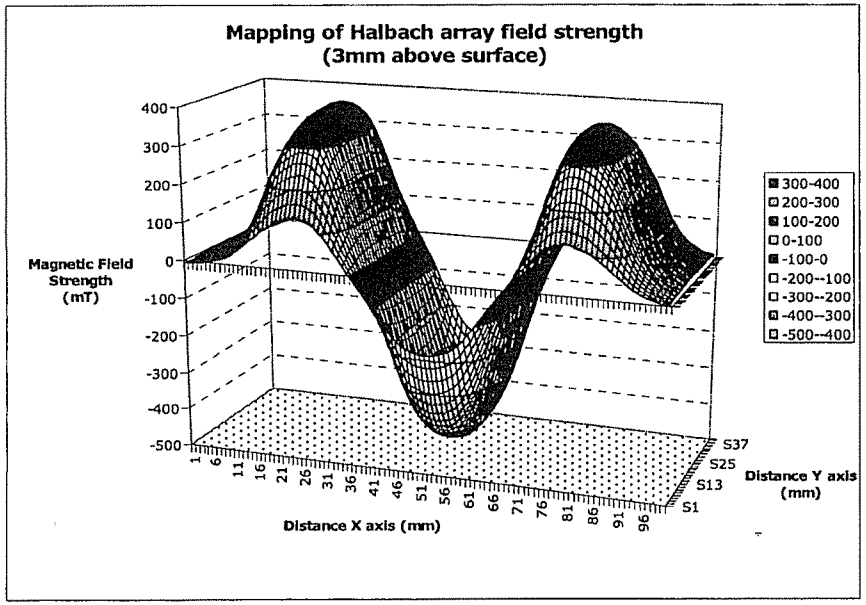

RLU/mg protein (2hr)
6.00E+08
5.00E+08
4.00E+08
3.00E+08
2.00E+08
1.00E+08
0.00E+00
Control
DNA only
Particles only
Standard Array
Hallbach

Figure 4

(a)


Mapping of Halbach array field strength
(3mm above surface)
Magnetic Field Strength (mT)
400
300
200
100
0
-100
-200
-300
-400
-500
300-400
200-300
100-200
0-100
-100-0
-200--100
-300--200
-400--300
-500--400
Distance X axis (mm)
Distance Y axis (mm)
S37
S25
S13
S1

(b)

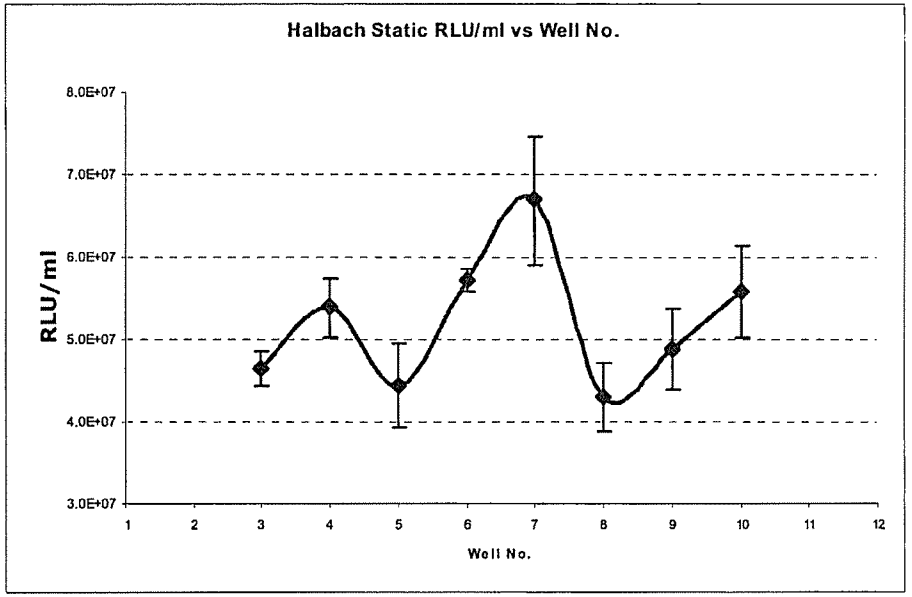

Halbach Static RLU/ml vs Well No.
RLU/ml
8.0E+07
7.0E+07
6.0E+07
5.0E+07
4.0E+07
3.0E+07
1
2
3
4
5
6
7
8
9
10
11
12
Well No.

Figure 5

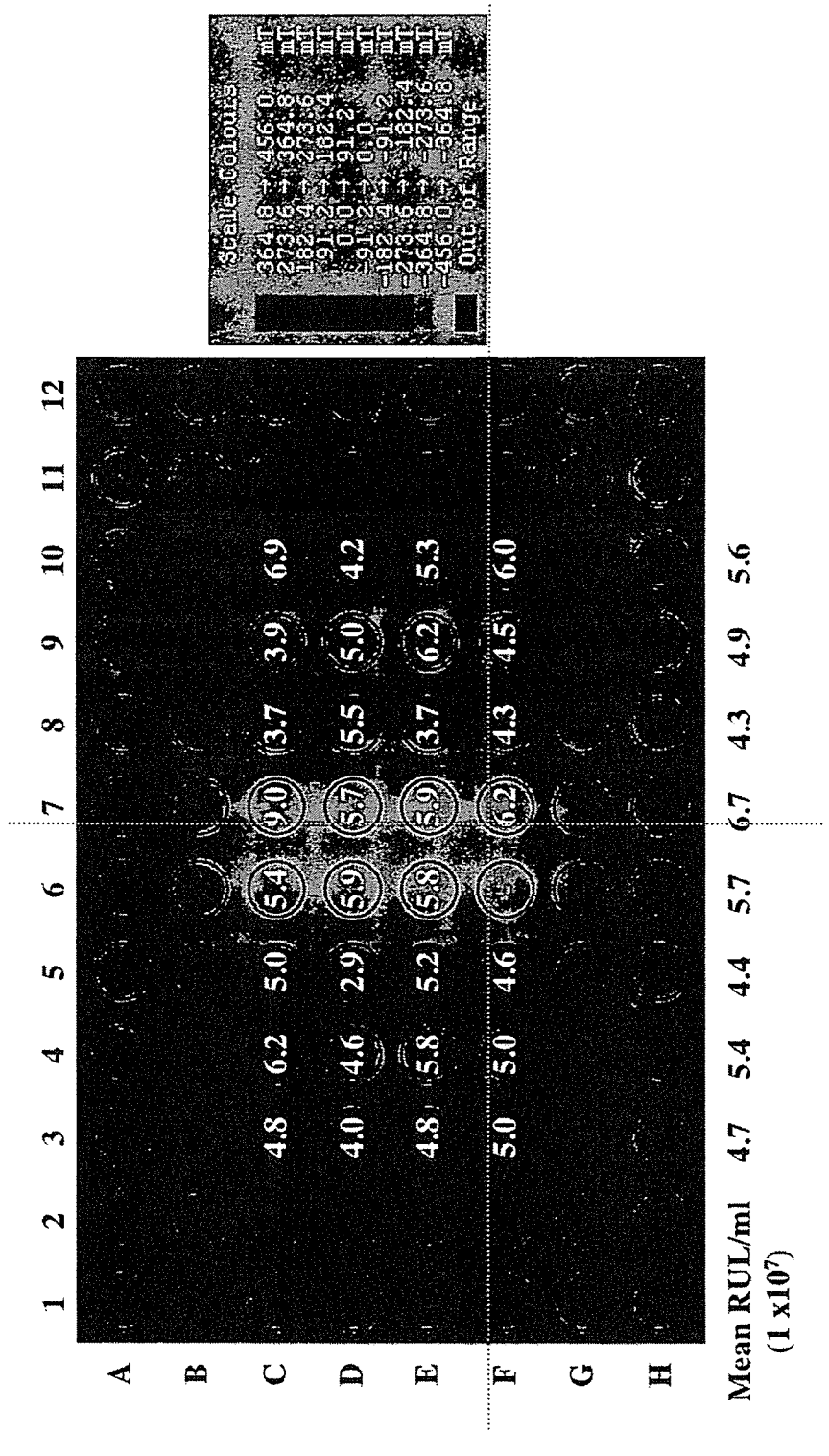

Scale Colours
Out of Range
1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H
4.7 5.4 5.7 6.7 4.3 4.9 5.6
Mean RUL/ml
(1 x10⁷)

Figure 6

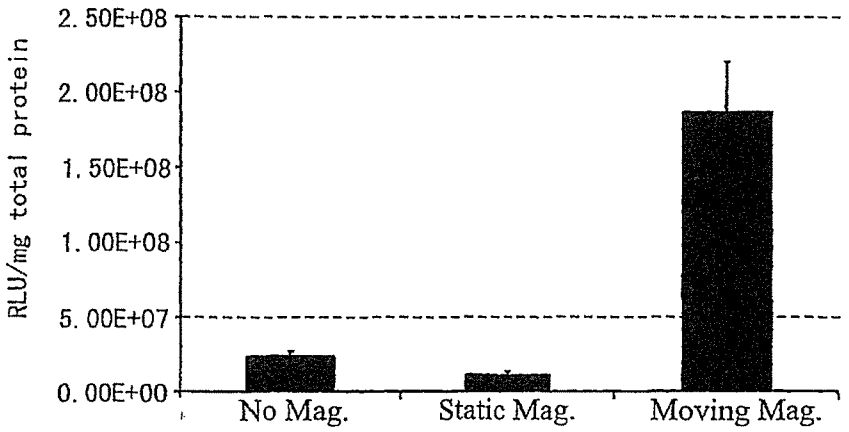
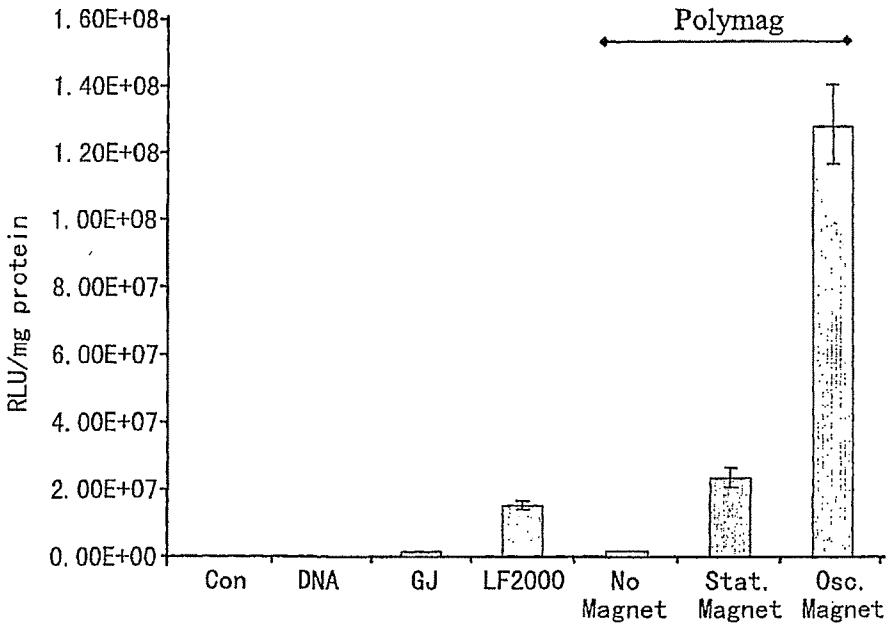

2.50E+08
2.00E+08
1.50E+08
1.00E+08
5.00E+07
0.00E+00
RLU/mg total protein
No Mag.
Static Mag.
Moving Mag.

Figure 7


Polymag
1. 60E+08
1. 40E+08
1. 20E+08
1. 00E+08
8. 00E+07
6. 00E+07
4. 00E+07
2. 00E+07
0. 00E+00
RLU/mg protein
Con
DNA
GJ
LF2000
No Magnet
Stat. Magnet
Osc. Magnet